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DEFINITE PROJECT REPORT FOR SECTION 14 EMERGENCY
STREAMBANK PROTECTION SA..(U) ARMY ENGINEER DISTRICT
ROCK ISLAND IL DEC 87

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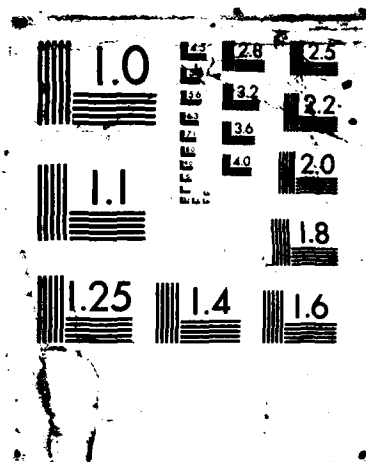
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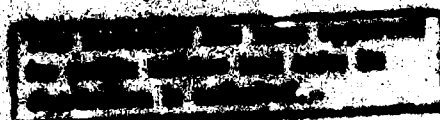
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of Engineers
Rock Island District

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DEFINITE PROJECT REPORT
FOR
SECTION 14.
EMERGENCY STREAMBANK PROTECTION,

SANGAMON RIVER
SEWAGE TREATMENT FACILITY
RIVERTON, ILLINOIS

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DEFINITE PROJECT REPORT
FOR
EMERGENCY STREAMBANK PROTECTION
SANGAMON RIVER
SEWAGE TREATMENT FACILITY
RIVERTON, ILLINOIS



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SEPTEMBER 1987

(Revised Dec 87)

TECHNICAL ACKNOWLEDGEMENT

The Rock Island District is proud to acknowledge the technical contributions made to this report by the following primary study team members:

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SYLLABUS

→ This report addresses the problem of streambank erosion at the junction of Sangamon Creek and the Sangamon River, at the village of Riverton, Illinois, Sewage Treatment Facility. The erosion is seriously affecting the streambank in the area of the effluent discharge outfall.

Village of Riverton, Illinois, officials requested the Rock Island District, U.S. Army Corps of Engineers, to investigate the problem and to determine a solution under the authority of Section 14 of the 1946 Flood Control Act, as amended.

✓ The proposal for emergency streambank protection presented in this report recommends channel relocation along with placement of riprap along approximately 230 linear feet of the left descending bank and along 60 linear feet of the right descending bank of Sangamon Creek, including portions of the right descending bank of the Sangamon River. The total estimated cost for the project is \$ 57,100, with a benefit-to-cost ratio of 2.3. The project satisfies the criteria for Federal participation and is recommended for construction.

DEFINITE PROJECT REPORT
FOR
EMERGENCY STREAMBANK PROTECTION
SANGAMON RIVER
SEWAGE TREATMENT FACILITY
RIVERTON, ILLINOIS

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DEFINITE PROJECT REPORT
FOR
EMERGENCY STREAMBANK PROTECTION
SANGAMON RIVER
SEWAGE TREATMENT FACILITY - RIVERTON, ILLINOIS

SECTION 1 - INTRODUCTION

STUDY REQUEST

The Rock Island District, U.S. Army Corps of Engineers, received a letter, dated October 3, 1986, from U.S. Representative Robert H. Michel, concerning an erosion problem at the junction of the Sangamon River and Sangamon Creek, at the Sewage Treatment Facility for the village of Riverton, Illinois. In the letter, Representative Michel reported that he was informed by village of Riverton officials, that it would only be a short period of time before an extremely serious situation would occur at the treatment facility due to erosion on Sangamon Creek. Representative Michel asked if the Corps could provide some assistance with the problem.

Representatives of the Rock Island District made an initial field investigation on October 16, 1986, to assess the extent of the erosion problem.

The village of Riverton, Illinois, by letter dated October 21, 1986, officially requested the Rock Island District, U.S. Army Corps of Engineers, to study the erosion problem under the authority of Section 14 of the 1946 Flood Control Act, as amended.

The Rock Island District, by letter dated December 29, 1986, informed the village of Riverton that a study had been initiated to determine the economic feasibility of providing Section 14 emergency streambank protection for the erosion problem at the Riverton, Illinois, Sewage Treatment Facility, at the junction of the Sangamon River and Sangamon Creek.

STUDY AUTHORITY

The authority for this report is provided under Section 14 of the 1946 Flood Control Act, approved 24 July 1946 (33 U.S.C. 701 R), as amended by the Water Resources Development Act of 1974. The authority, as amended, states:

That the Secretary of the Army is authorized to allot from any appropriations heretofore or hereinafter made for flood control, not to exceed \$ 10,000,000 per year, for the construction, repair, restoration, and modification of emergency streambank and shoreline protection works to prevent damages to highways, bridge approaches, public works, churches, hospitals, schools, and other non-profit public services, when in the opinion of the Chief of Engineers such work is advisable: Provided, that no more than \$ 500,000 shall be allotted for this purpose at any single locality from the appropriations for any one fiscal year.

STUDY SCOPE

The study area, as shown on plate 1, is located along the right descending bank of Sangamon Creek at the junction of the Sangamon River, at the Village of Riverton, Illinois, Sewage Treatment Facility, Section 9, Township 16 North, Range 4 West, Clear Lake Township, in Sangamon County.

DETAIL OF INVESTIGATION

This Definite Project Report contains sufficient detail to allow approval of the project and initiation of the preparation of plans and specifications.

PRIOR STUDIES AND REPORTS

No previous studies have been made for the specific problem area identified in this report by the Rock Island District, U.S. Army Corps of Engineers.

SECTION 2 - PLAN FORMULATION

PUBLIC CONCERNS

Village of Riverton, Illinois, officials, are concerned about the existing erosion damage and the potential damages which could occur at the sewage treatment facility, with the onset of additional flooding on Sangamon Creek. The discharge effluent manhole, associated piping, and appurtenances for the facility are at the present time in imminent danger of failure. U.S. Representative Robert M. Michel has expressed his concern for the erosion problem.

EXISTING CONDITIONS

The study area, as shown on plate 4, is located in the village of Riverton, Illinois, at the junction of the Sangamon River and Sangamon Creek. Riverton's sewage treatment facility discharges its effluent at the junction of these two waterways.

The erosion area extends from the effluent discharge outfall, which includes a discharge manhole and associated piping, to a point approximately 200 linear feet upstream, along the left descending bank of Sangamon Creek. The top of the existing eroded bankline, in the upstream one-half of the study area, is very close to the treatment facility's perimeter fence. Just inside this fence are a chlorine contact tank, an effluent flow metering device, and a clarifier, which are threatened by the erosion.

An additional site investigation made by the Corps in June 1987 revealed that the study area had lost approximately 3 feet of bankline since a previous Corps visit in October 1986, leaving the effluent discharge manhole seriously undermined.

According to village of Riverton officials, the erosion is occurring along Sangamon Creek in the study area at an increasing rate. High flows on Sangamon Creek and the Sangamon River, during the 2-week period previous to the site visit made by the Corps in October 1986, have eroded away approximately 4 feet of the creek bank, felling large trees into the creek channel and leaving the effluent discharge manhole perched on the top edge of the nearly vertical slope. Village of Riverton officials also reported that the area near the effluent discharge outfall has lost about 10 feet of bankline in the past year.

FUTURE CONDITIONS WITHOUT PROJECT

The effluent discharge outfall piping, manhole, and flow metering pit are presently in imminent danger of failure. If the erosion problem is not brought under control, it is expected that failure of these facilities along with additional damage to other nearby sewage treatment facility appurtenances, will occur with the next significant flooding event on Sangamon Creek. Other contributing factors to the streambank erosion are the lack of any vegetative cover and the poor soil cohesion of the slope.

It is estimated that the next flooding event on Sangamon Creek will cause \$ 90,000 in direct damages to the sewage treatment facility. The costs for protecting those repairs from further damages by installing riprap streambank revetment, is estimated to be approximately \$ 60,000. If the endangered facilities at the treatment facility are not protected, the village of Riverton will need an estimated \$ 150,000, to meet sewage treatment facility construction standards. This cost provides the basis for the derivation of benefits if there is no Federal action.

PLANNING OBJECTIVES

NATIONAL OBJECTIVE

The plan formulation process to accomplish erosion damage reduction is formulated and directed by a national planning objective consistent with protecting the Nation's environment, pursuant to national environmental statutes, applicable executive orders, and other Federal planning requirements.

National Economic Development (NED) - To enhance the national economic development by increasing the value of the Nation's output of goods and services and improving the national economic efficiency.

SPECIFIC OBJECTIVE

To prevent the economic losses associated with the erosion and imminent failure of the appurtenances at the sewage treatment facility for the village of Riverton, Illinois, during the period 1987-2037.

PLANNING CONSTRAINTS

This study is constrained by all laws of the United States and by the State of Illinois, all executive orders of the President, and all engineering regulations of the U.S. Army Corps of Engineers, including the study authority as stated in Section 1 of this report.

ALTERNATIVE SOLUTIONS

Alternative solutions to remedy the erosion problem at the study area included gabions, channel relocation with riprap protection, and no action. Cost estimates of these alternatives indicate that gabion revetment is more labor intensive and is the most costly alternative for curtailing the erosion.

Channel relocation with riprap protection provides a substantially greater amount of protection to support the endangered appurtenances at the sewage treatment facility and is the least-cost alternative. It is also more environmentally and socially acceptable and is brought forward as the selected plan. Channel relocation with riprap protection is the NED plan.

SELECTED PLAN

The selected plan consists of clearing and grubbing an area along the banks of the project area, as shown on plate 2, to remove any existing trees and brush for the construction of the project. An area parallel to the existing Sangamon Creek will be excavated to form a new creek channel, 15 feet wide by approximately 175 feet long. The excavated earthen material, plus some additional earthen material to be hauled in from a local borrow area, will be used to fill in the eroded areas of the old creek channel. The new creek channel side slopes will be shaped and graded to provide a uniform slope of 1V on 2H. A 12-inch layer of riprap (approx. 500 tons) will be placed on a 6-inch layer of bedding stone (approx. 250 tons) along approximately 230 linear feet of the left descending bank and along approximately 60 linear feet of the right descending bank of the new Sangamon Creek channel, to include wrapping the revetment around portions of the existing right descending bank of the Sangamon River. An additional blanket of riprap 18 inches thick by 5 feet wide (approximately 125 tons) will be provided along the toe of the protected slopes. See plates 3 and 4 for typical sections of the project. All areas disturbed by the construction of the project will be seeded.

It is estimated that about 500 cubic yards of material will be placed below the calculated ordinary high water elevation of 513.5 (U.S.G.S. datum). State of Illinois Water Quality Certification pursuant to Section 401 of the Clean Water Act (33 U.S.C. 1341) has been granted. A letter granting this certification is contained in the pertinent correspondence appendix.

(Revised Dec 87)

Stabilizing the bankline will contribute to a reduction in turbidity and sediment carried into the stream. The riprap and rock bedding will be chemically and physically stable and noncontaminating.

HYDRAULIC ANALYSIS

FLOW ANALYSIS

Flow frequency relationships were developed for Sangamon Creek and the Sangamon River at Riverton, Illinois. The Sangamon River flow frequency relationship was developed by analyzing peak flow records at the Riverton gage (station 005576500), located approximately 1,400 feet upstream from the study area. By using a HEC program entitled Flood Flow Frequency Analysis, a discharge-frequency curve was developed and is illustrated on Plate 5. Flows developed were approximately 5 percent higher than flows used for the Riverton, Illinois, Flood Insurance Study of 1981. This is due to expected probability being used and the addition of 9 years of record to the analysis, including high flows in years flows in years 1977, 1979, 1982, and 1983. Flow velocity for the Sangamon River, as shown in the Flood Insurance Study of 1981, is 5 feet per second. Velocities for a 5-year flood on Sangamon Creek are 7.4 feet per second, which were calculated using an HEC-2 computer run and was based on cross section data gathered from a recent site visit to the problem area and by using U.S.G.S. topographical maps. The Sangamon Creek flow frequency analysis was developed using State of Illinois regression equations entitled Technique For Estimating Magnitude and Frequency of Floods in Illinois, U.S.G.S., 1977. The study area drains approximately 2.31 square miles, and has a basin slope of 21.9 feet per mile. A discharge-frequency curve was developed for Sangamon Creek and is illustrated on Plate 6.

SHEAR ANALYSIS

A riprap layer of 12 inches thick is the minimum required for the riprap design. Sangamon Creek velocities are higher and therefore will be used in the design. A local boundary shear of 0.85 pounds per square foot was calculated by using a density of 165 pounds per cubic foot which resulted in a D50 of 0.85 feet, using the following equations:

$$T_o = \left[\frac{GV^2}{32.6 \log 10 \frac{12.2y^2}{D50}} \right] \times (1.5)$$

G = Unit weight of water
V = Velocity = 7.4 fps
D50 = 0.58 ft.
y = Flow depth = 4.2 ft.

Using a non-uniform flow factor of 1.5, the local boundary shear used for the design will be calculated as follows: $(1.5)(0.85)=1.28$ pounds per square foot. The design shear for a 12-inch thick layer of riprap, at a slope of 1V on 2H, and a D50 of 0.58, was calculated to be 1.71 pounds per square foot using the following equations:

$$T^1 = T \left(1 - \frac{\sin^2 c}{\sin^2 d} \right)^{0.5}$$

T^1 = Side slope design shear
 c = Side slope angle (26.6)
 d = Angle of repose (40)
 T = Channel bottom design shear
 $a = 0.040$
 $D50 = 0.58$ ft.
 G_s = Unit stone weight (165 pcf)
 G = Unit water weight (62.4 pcf)

$$T = a (G_s - G) D50$$

RIPRAP DESIGN

The required riprap design gradation was determined in accordance with procedures in EM 1110-1-601 and ETL 1110-2-120. From the preceding shear analysis, a 12-inch thick layer of riprap is slightly oversized. However, a 12-inch thick layer of riprap is the minimum required for riprap design.

Sangamon Creek is a very small stream, which flows into the Sangamon River, a much larger stream. A rise and fall of the Sangamon River, followed by a high flow from Sangamon Creek, increases the moisture content of the endangered streambank and creates a condition conducive to erosion. This is a special condition which exists at the study area. Based on the above information, the following is the required riprap gradation:

% LIGHTER BY WEIGHT

100
50
15

LIMITS OF STONE WEIGHT, LBS.

86-35
26-17
13-5

Any riprap placed underwater should be 18-inches thick. The riprap blanket should extend beyond the toe of the bank. The ends of the blanket should extend beyond the limits of the existing erosion. A 6-inch thick bedding layer should be provided under the riprap blanket. The bedding layer is important because it facilitates drainage of the bank after high flows on the Sangamon River recede, while restricting soil particle movement.

ORDINARY HIGH WATER

The ordinary high water elevation (O.H.W.), corresponds to the 25 percent duration flow. The 25 percent duration flow for Sangamon Creek was determined to be approximately 1 cubic foot per second from the graph, based on synthetic relationships developed by the Rock Island District, Corps of Engineers, using least square regression of records at 104 gaging stations across the State of Illinois.

Due to the 25 percent duration flow of Sangamon Creek being virtually zero, (the creek is normally dry for a good portion of the year), the Sangamon River will be used as the basis for the calculation of the O.H.W.. The 25 percent duration flow was determined from a flow-duration analysis of continuous flow records at the Riverton gage and is calculated to be 1,750 cubic feet per second. Using the elevation-discharge relationship established at the Riverton gage, and by transferring that elevation to the study area, an elevation of 513.5 (U.S.G.S. datum), was determined.

MAXIMUM FLOODING LEVELS

Flood levels on the Sangamon River were developed by applying the flows mentioned in the flow analysis to a rating curve developed from the Riverton Flood Insurance Study of 1981. Coincident and non-coincident flooding levels on Sangamon Creek, at the project site, were developed from an HEC-2 computer run, as also mentioned in the flow analysis, and are shown below.

Frequency	Sangamon River Elevations	Sangamon Creek Non-coincident Elevations	Sangamon Creek Coincident Elevations
50- Year	535.2	515.7	535.2
100-Year	536.4	516.1	536.4
500-Year	539.2	517.0	539.2

ENVIRONMENTAL ANALYSIS

As mentioned previously, the proposed project area is located at the confluence of Sangamon Creek and the Sangamon River, at Riverton, Illinois. The village of Riverton Sewage Treatment Facility borders on the south bank of Sangamon Creek and the east bank of the Sangamon River. Bank erosion is threatening portions of the facility.

The sewage treatment facility is situated about 20 feet in height above the water surface of the creek. The creek bank and riverbank bordering the facility, both tend to be steep and are nearly vertical in the proposed project area. The facility is positioned immediately adjacent to the south bank of Sangamon Creek.

Situated approximately 100 feet north of the creek is the Norfolk and Southern Railroad bridge embankment. The area between the creek and the railroad will be affected by the proposed project to relocate a portion of the Sangamon Creek channel and provide riprap protection. This area is wooded with medium growth, mature species. Cottonwood (Populus deltoides), silver maple (Acer saccharinum), ash (Fraxinus sp.), elm (Ulmus sp.), mulberry (Morus sp.), hackberry (Celtis occidentalis), & wild cherry (Prunus serotina), would be typical tree species for the area. About 0.2 acre will be affected by the project, and an estimated 80 to 100 trees will be removed.

One federally listed endangered species is reported as potentially occurring in Sangamon County, Illinois: the Indiana Bat (Myotis sodalis). Indiana bats use caves for winter roosting sites and riparian trees with slabs of exfoliating bark as summer roosting sites. There are no existing caves in the proposed project area. In the proposed project area where trees are to be removed, a large, standing, almost dead cottonwood tree was observed but it had no slabs of exfoliating bark. One standing, dead, tree (approx. 10-inch diameter), was present that had no top or branches, but it did have peeling bark. However, the peeling bark was in small slivers and was not the larger type slabs that the Indiana bat might use. About 3 mature silver maple trees with peeling bark also were observed. But again, the peeling bark was in slivers and not the large slabs that might be utilized by bats. Based on the above findings, it is assumed that the proposed project is not anticipated to have any effect on the Indiana bat.

The District Engineer has determined that damage to the Riverton Sewage Treatment Facility is imminent without immediate action. Sufficient time does not exist to prepare and process documentation required by the National Environmental Policy Act. The proposed project is therefore exempted from the requirements of the Act. (Paragraph 8a of ER 200-2-2; 33 CFR 230)

Sufficient time also does not exist for document preparation and processing required by Section 404 of the Clean Water Act. Therefore, a Section 404(b)(1) Evaluation will not be prepared and a Section 404 Public Notice will not be issued. (Paragraph 4-7; ER 1105-2-50) An emergency exemption does not exist for the requirements of Section 401 of the Act. Pursuant to this action, State of Illinois Water Quality Certification has been granted by the Illinois Environmental Protection Agency by a letter dated August 3, 1987, and can be found in the pertinent correspondence appendix. The fill material to be used in the proposed project will consist of existing earthen material and the finished project will be physically and chemically stable and noncontaminating.

Necessary coordination with Federal, State, and local agencies has been accomplished; documentation of this coordination can be found in the pertinent correspondence appendix.

Coordination with the U.S. Environmental Protection Agency raised the following two questions:

1. What will be the fisheries impact of the project?

Response: Over the short term, project activities will have a severe localized impact at the mouth of the creek. Fish are highly motile and will, to a great extent, avoid these disturbances. Over the long term, the riprapped shoreline will provide a more hospitable environment for aquatic invertebrates and small fish than the eroding shoreline.

2. Will the loss of trees be compensated for?

Response: After construction, not enough treeless project land would be available to replace all the trees being lost. Partial replacement would be possible. However, the trees which would be lost, occur naturally in the area and would volunteer if vacant land existed and land-use practices allowed. In addition, the species are not unique and occur abundantly in the general area. Therefore, since the resource being lost is not unique or rare and would replace itself if appropriate vacant land existed, the expenditure of Federal and local sponsor funds to replace the trees is not considered warranted.

Coordination with the National Park Service raised the question of whether other innovative methodologies such as the use of trees and other vegetation cabled to the shoreline which can encourage sedimentation could be used to stabilize the bank line. Riprap was chosen as the bank stabilization methodology in the recommended plan because it was considered to exhibit the best combination of cost effectiveness and reliability in conjunction with minimizing environmental disruption.

The Illinois Department of Conservation viewed the relocation of a portion of the stream channel as undesirable if it could be avoided. Because of the height of the existing bank and the design of the proposed riprapped slope, it is necessary to realign a portion of the channel.

The proposed project would not encourage development in the floodplain and is in compliance with Executive Order 11988, Floodplain Management. No wetlands will be adversely affected; therefore, this project is in compliance with Executive Order 11990, Protection of Wetlands.

Section 14 studies were not selected for review by the State of Illinois under Executive Order 12372, State Single Point of Contact. Therefore, the study is being coordinated with the Governor's designated representative for Civil Works -- the Director, Division of Water Resources, Illinois Department of Transportation.

(Revised Dec 87)

CULTURAL RESOURCES

Rock Island Staff Archeologists conducted an archeological survey of the proposed project area on June 22, 1987. Careful inspection of the eroded bank, combined with trowel scraping, indicated that this area has been disturbed by modern historic dumping of fill materials. Inspection of the proposed channel realignment area indicated that it had been highly reworked by lateral migration of the tributary stream across its floodplain. Based on these field observations, it was determined that no significant historic properties were present in the proposed bank stabilization area. The Illinois State Historic Preservation Officer concurred with this finding on July 17, 1987, and a copy of this letter can be found in the pertinent correspondence appendix. Therefore, the project may proceed in full compliance with all cultural resource statutes.

REAL ESTATE REQUIREMENTS

The village of Riverton advised the Corps of Engineers that it owns the right-of-way required for the construction, operation, and maintenance of the proposed project. Therefore, there is no real estate acquisition cost. A gross estimate of value of lands, improvements and damages, contingencies, and zero relocation assistance and acquisition cost, is \$600.

ECONOMIC ANALYSIS

PURPOSE

The purpose of the economic analysis is to study the feasibility of preventing streambank erosion from occurring along Sangamon Creek in the village of Riverton, Illinois. Sangamon Creek, a tributary to the Sangamon River, has a major erosion problem at the Riverton Sewage Treatment Facility, located near the junction of Sangamon Creek and the Sangamon River.

DESCRIPTION OF THE PROBLEM

The course of the creek has been changed by erosion to a position closer to the treatment facility. This, along with extensive erosion of the left descending bank of the creek, has placed some sewage treatment appurtenances in imminent danger of failure.

The location of the problem area is shown on plates 1 and 2. The eroded creek bank, next to the treatment facility, has a nearly vertical slope which averages 20 feet in height above the channel bottom of the creek. It is expected that the next significant flooding event on the creek will undermine the vertical creek bank, removing two manholes, some chain-link perimeter fence, several lengths of sewer pipeline, and other related sewage treatment equipment. It also would cause additional damage to a clarifier unit and therefore jeopardize the quality of the sewage treatment.

DEMOGRAPHY

Riverton is located in central Illinois, just east of Springfield, in Sangamon County. The 1980 population of Sangamon County was 176,089 and the village of Riverton, 2,783 persons. Both the county and the village have shown a population increase over the 1960-1980 period. Population trends for the county, the village, and the State, are presented in table 1.

TABLE 1

Population Trends

Item	Population		
	(1960)	(1970)	(1980)
Sangamon County, Illinois	146,539	161,335	176,089
Village of Riverton, Illinois	1,591	2,090	2,783
State of Illinois	10,081,158	11,110,285	11,426,518

RESULTS OF NO FEDERAL ACTION

The results of no Federal action provide the basis for the derivation of benefits. The damages and costs that will likely occur were used to estimate costs to the village of Riverton that might result if Federal action were not provided.

It is expected that the next high water event on the creek will cause an estimated \$ 90,000 in direct damages to the treatment facility. The cost of protecting those repairs from further damage by installing riprap is estimated to be approximately \$ 60,000. Total funds needed by the village to meet sewage treatment facility construction standards are \$ 150,000 (\$ 90,000 + \$ 60,000).

Section 2 of this report discusses the fact that 3 feet of bank eroded from October 1986 to June 1987 and 4 feet eroded away just prior to October 1986. Since the critical components are now completely exposed as shown on plate 5, any flows above normal have the potential to cause the damage described in the economic analysis. The existing condition is for damage occurring in the base year. There is some probability that two years could occur prior to the total damage with some damage taking place in the first year. That scenario would result in discounting the benefits for one year, an insignificant impact on the benefits.

The analysis is not sensitive to any of the assumptions made. With the type of facility and the erosion rate documented, there is virtually a 100 percent chance of the damage occurring at the next high water event. The greatest probability of that occurring during the Spring run-off.

(Revised Dec 87)

BENEFITS

Benefits are considered to be the annualized value of the village's cost if no Federal action were taken. The computation of benefits using 8-7/8% and a 50-year period of analysis is as follows:

	Amount
Costs to the Village	\$ 150,000
Interest and amortization (.09003)	\$ 13,500

COSTS OF FEDERAL ACTION

The costs of Federal action that could be provided to prevent the erosion damages and costs to the village, are listed in tables 2 and 3.

TABLE 2

Estimate of Construction Cost (\$) (December 1987 Price Levels)

Item	Qty.	Unit	Unit Cost	Costs	
				Federal	Non-Federal
Clearing and Grubbing	1	AC.	2,500	2,500	
Site Preparation	2,000	C.Y.	3.50	7,000	
Riprap (12" Slope)	500	Ton	24.00	12,000	
Riprap (18" Toe Blanket)	125	Ton	24.00	3,000	
Bedding (6" Slope)	250	Ton	22.00	5,500	
Fill Material	1,000	C.Y.	6.50	6,500	
Seeding	1	AC.	1,500	1,500	
Real Estate (Lands, Improvements and Damages)					600
Subtotal				38,000	600
25% Contingencies				9,500	
Subtotal				47,500	
Engineering & Design				5,000	
Supv. & Admin.				4,000	
+Non-Federal Cost					600
Total Project Cost				57,100	

TABLE 3

Interest During Construction (30 days)
8-7/8% Interest Rate

Year	Const. Cost (\$)	Time to Base Year (Year and Payments	Factor for Compound Interest Increase at 2.1944% Per Payment	Accumulated Interest to Base Year (\$)
1987	57,100	.08(1)	.0071	405

Annual costs of these construction costs are shown in table 4.

TABLE 4

Annual Costs
8-7/8% Interest Rate
30-Year Project Life

Description	First Costs(\$)	Annual Costs(\$)
Construction	57,100	
Interest During Construction	405	
Total	57,505	
Annual Cost (.09003 x \$ 57,505)		5,177
Annual Operation and Maintenance		106
Total Annual Cost		5,283
		Rounded 5,300

RESULTS

The results of these computations provide a basis to compute the benefit-to-cost ratio (BCR) as follows:

$$\text{The BCR} = \$ 13,500 / \$ 5,300 = 2.5$$

COST APPORTIONMENT

Recent legislation passed by Congress and signed by the President of the United States requires that all construction of Section 14 projects awarded after 1 October 1986 be cost-shared between the Federal Government and the non-Federal project sponsor. Project cost-sharing is in accordance with Public Law 99-662, of The Water Resources Development Act of 1986, and is designed to provide consistency among projects and programs and equity among sponsors of comparable works. Under these provisions, the non-Federal project sponsor would provide without cost to the Government, during the period of construction, a minimum of 25 percent of the total project costs. 5 percent of these costs must be a cash payment, with the remainder of the amount to be in the form of lands, easements, rights-of-way, and utility and facility alterations and relocations necessary for the construction and maintenance of the project. If the value of these contributions represents less than 25 percent of the total project costs, the local sponsor shall provide, during the period of construction, an additional cash contribution in the amount necessary to make its total contribution equal to 25 percent of the total project costs. The project sponsor is also required to contribute all project costs in excess of the Federal statutory limitation of \$ 500,000.

The cost apportionment for this project is shown in table 5.

TABLE 5

Cost Apportionment (\$)

Non-Federal Apportionment

25 Percent Village Share	14,275
Less Credit (Lands, Easements, Rights-of Way)	600
Cash Payment Required	13,675

Federal Apportionment

Total Project Costs	57,100
Less Non-Federal Share	14,275
Total Federal Cost	42,825

SECTION 3 - PLAN IMPLEMENTATION

CORPS OF ENGINEERS

This report will be processed for approval of the selected plan of action and the authorization of funding for construction. Upon approval and appropriation of funding by the office of the Chief of Engineers, the Rock Island District will be responsible for the preparation of plans and specifications and the construction of the project.

COORDINATION

Details of the proposed project have been coordinated with the following Federal, State, and local agencies:

Village of Riverton, Illinois
U.S. Environmental Protection Agency
U.S. Fish and Wildlife Service
Illinois Department of Transportation
Illinois State Historic Preservation Officer
Illinois Department of Conservation
Illinois Environmental Protection Agency

VILLAGE OF RIVERTON, ILLINOIS

The village of Riverton, Illinois, has agreed to act as local sponsor for the proposed project. Initial coordination has been completed. The local cooperation agreement requirements in brief are:

a. Provide without cost to the Government, during the period of construction, all lands, easements, rights-of-way, and all relocations and alterations of facilities and utilities, except for those utilities which pass under or through the line of protection, which are necessary for the construction and maintenance of the project, regardless of their value.

b. Make a cash payment of not less than 5 percent of the total project costs during the period of construction, regardless of the value of the items in a. above. If the value of the items in a. above is less than 20 percent of the total project costs, the village of Riverton, Illinois, shall, during the period of construction, make such additional cash payments as are necessary to bring its total contribution in cash and value of lands, easements, rights-of-way, and utility and facility alterations and relocations, to an amount equal to 25 percent of the total project costs.

c. Contribute all project costs in excess of the Federal statutory limitation of \$500,000.

(Revised Dec 87)

d. Hold and save the Government free from all damages arising from the construction, operation and maintenance of the project, except for damages due to the fault or negligence of the Government or its contractors.

e. Operate, maintain, replace, and rehabilitate the project upon completion in accordance with regulations or directions prescribed by the Government.

f. Comply with the applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, approved 2 January 1971, in acquiring lands, easements, and rights-of-way for construction and subsequent operation and maintenance of the project, and inform all affected persons of applicable benefits, policies, and procedures in connection with said act.

g. Comply with Section 601 of Title VI of the Civil Rights Act of 1964 (Public Law 88-352) and Department of Defense Directive 5500.11 issued pursuant thereto and published in Part 300 of Title 32, Code of Federal Regulations, as well as Army Regulation 600-7, entitled: "Non Discrimination on the Basis of Handicap and Programs and Activities Assisted or Conducted by the Department of the Army."

h. Prior to construction activities, and in accordance with the provisions of Section 221 of Public Law 91-611, the village of Riverton, Illinois, will enter into a contract with the Government whereby The village of Riverton will grant the Government a right to enter, at reasonable times and in a reasonable manner, upon land which it owns or controls for access to the project, for the purpose of inspection, and, if necessary, for the purpose of completing, operating, repairing, maintaining, replacing, or rehabilitating the project. If an inspection shows that the village, for any reason is failing to fulfill its obligation under the agreement without receiving prior written approval from the Government, the Government will send a written notice to the village. If the village persists in such failure for thirty (30) calendar days after receipt of the notice, then the Government shall have a right to enter, at reasonable times and in a reasonable manner, upon lands the village owns or controls for access to the project for the purpose of completing, operating, repairing, maintaining, replacing or rehabilitating the project. No completion, operation, repair, maintenance, replacement or rehabilitation by the Government shall operate to relieve the village of responsibility to meet its obligations as set forth in the agreement, or to preclude the Government from pursuing any other remedy at law or equity to assure the faithful performance pursuant to the agreement.

(Revised Dec 87)

The village of Riverton is willing and able to pay its share of the total project costs. Sufficient funds are on hand or can be raised quickly, and the cash payment can be deposited directly with the Government, or in an escrow account, upon demand by the Government.

The estimated total non-Federal share consists of \$ 400 for real estate costs plus a cash contribution of \$ 13,675. It is anticipated that the village of Riverton will have to invest \$106 annually to replace lost riprap during the 50-year project life.

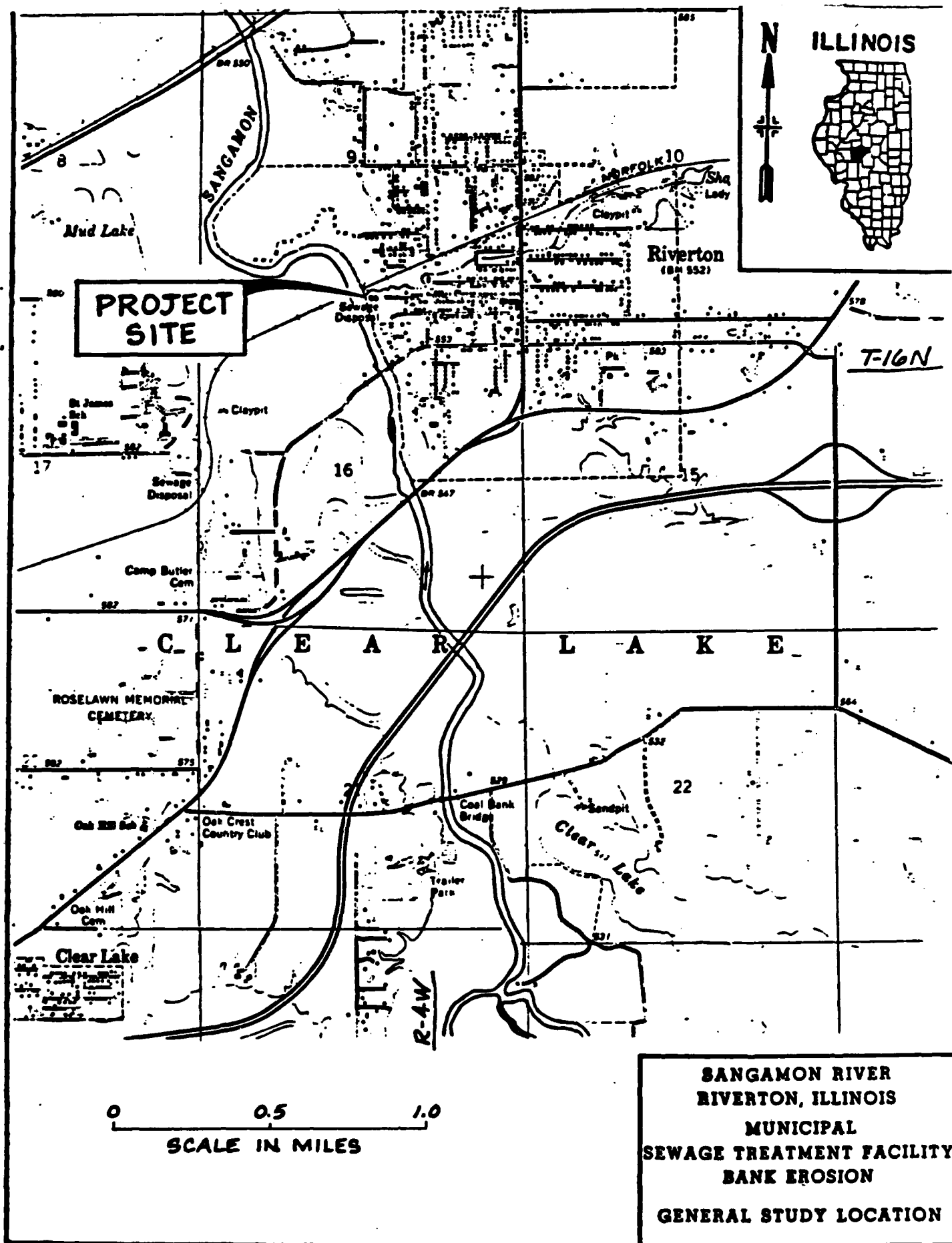
SECTION 4 - RECOMMENDATION

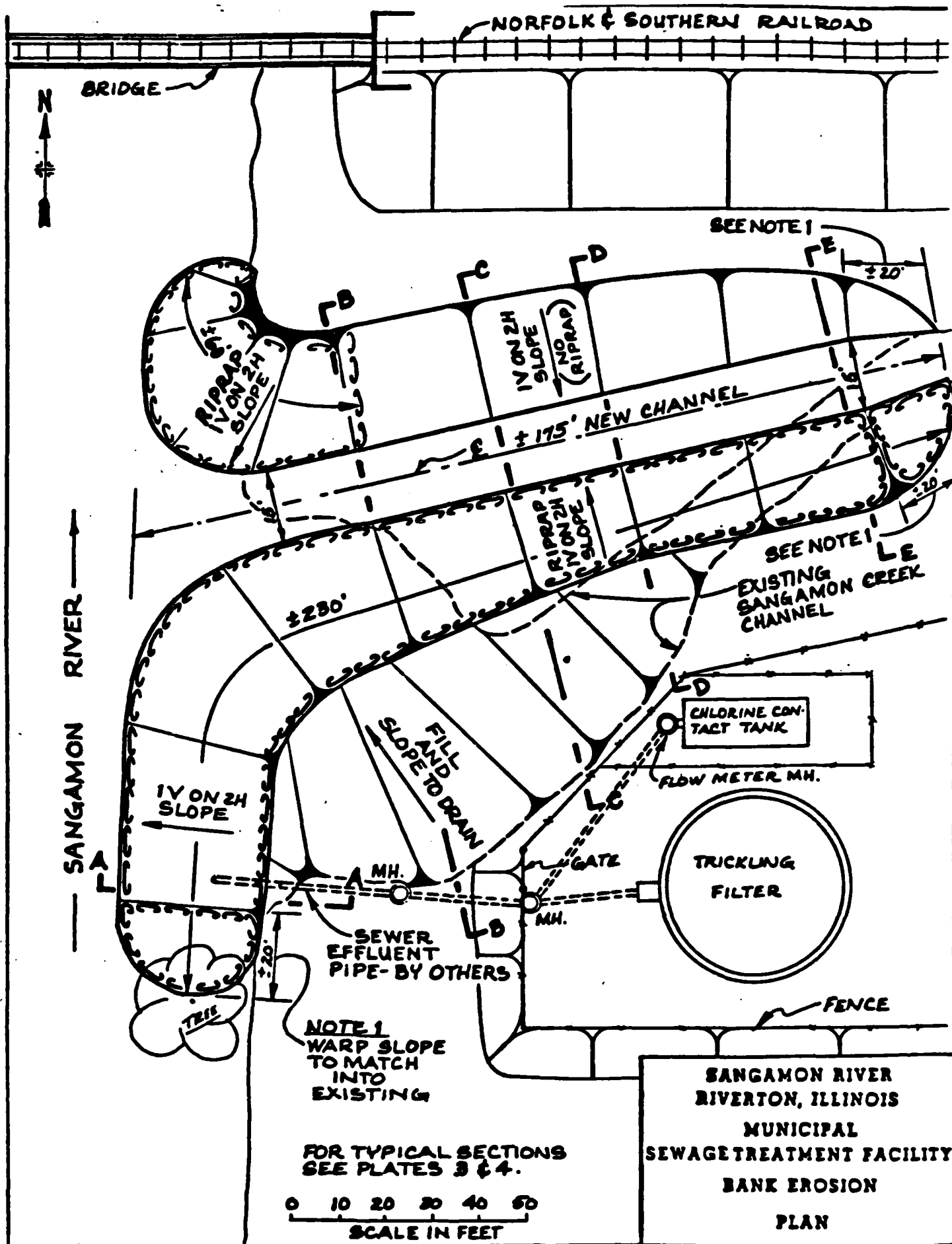
I recommend that the plan selected herein to relocate a portion of the Sangamon Creek channel and provide riprap streambank revetment to protect the sewage treatment facility at Riverton, Illinois, from imminent danger due to erosion from flooding, be authorized for implementation as a Federal project with a total cost to the United States estimated at \$ 42,825.

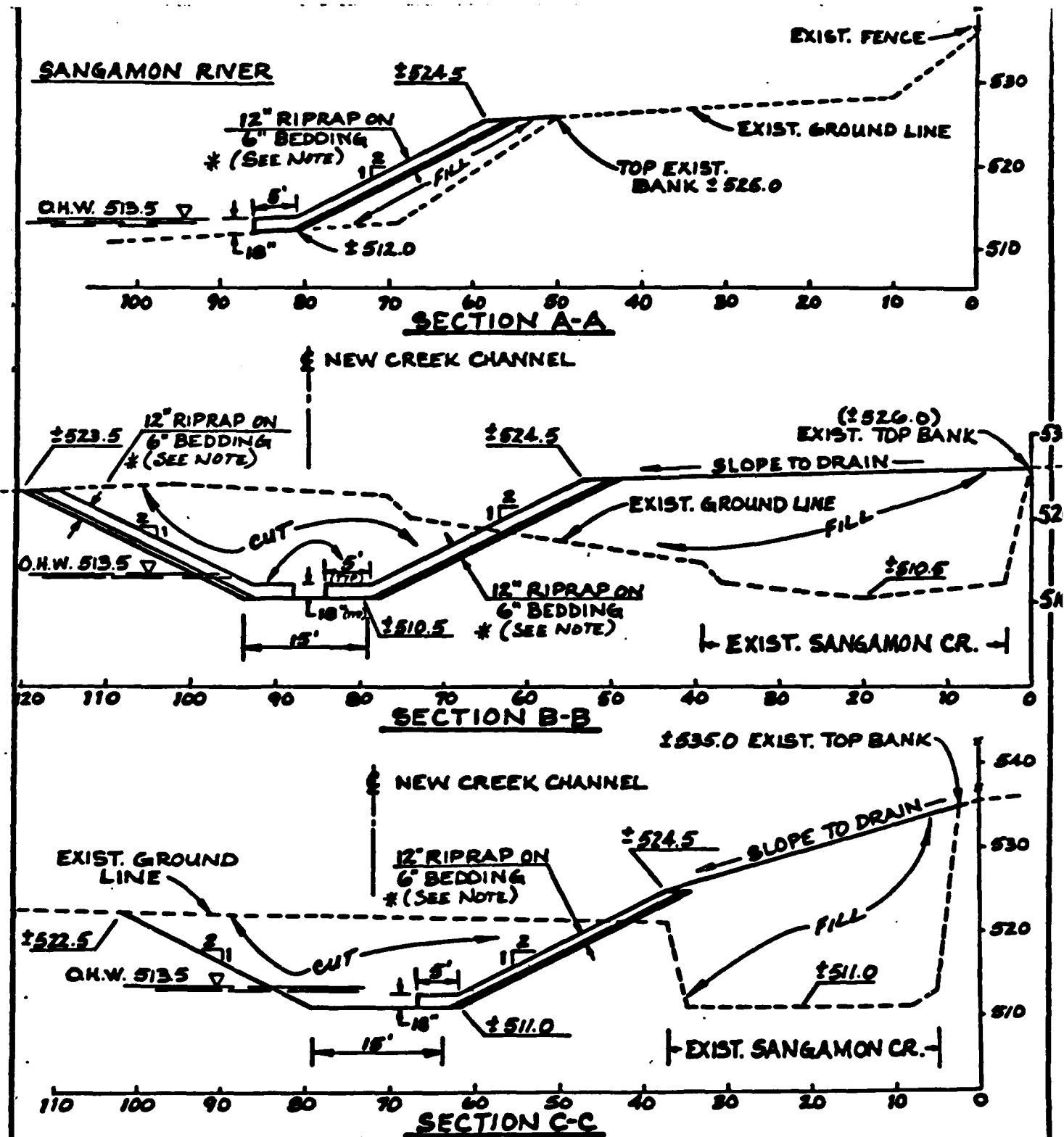


Neil A. Smart
Colonel, U.S. Army
District Engineer

PLATES



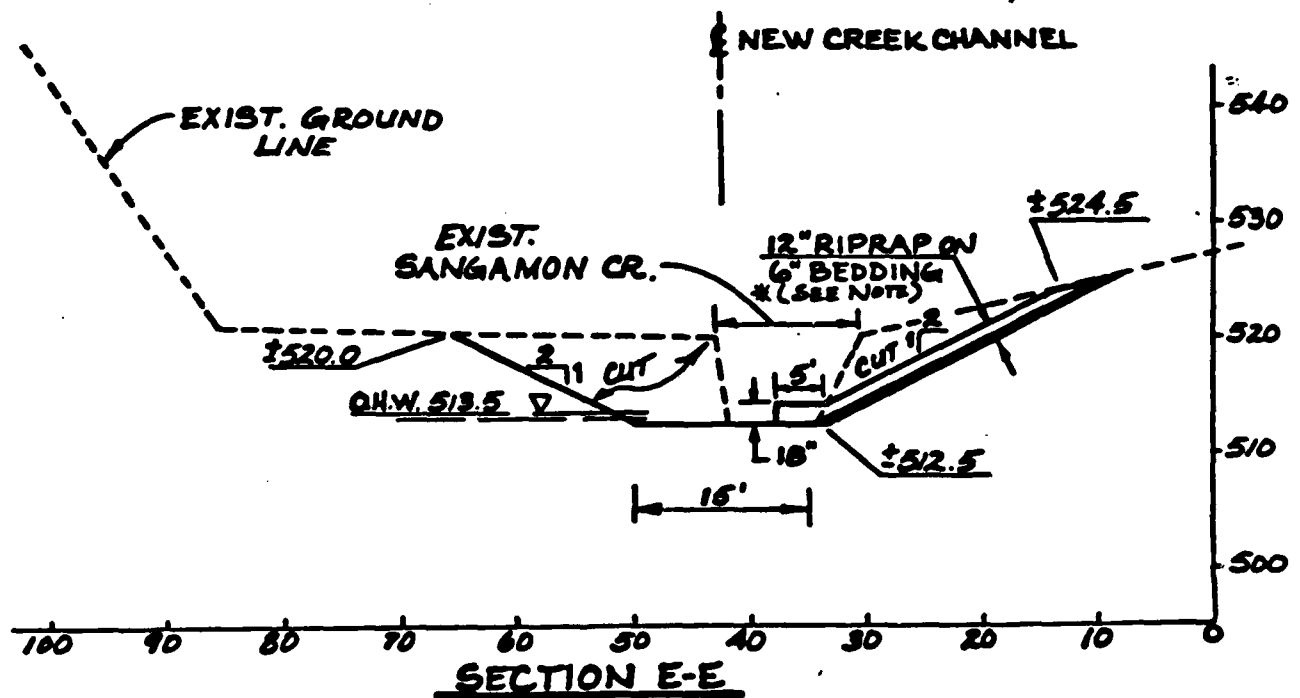
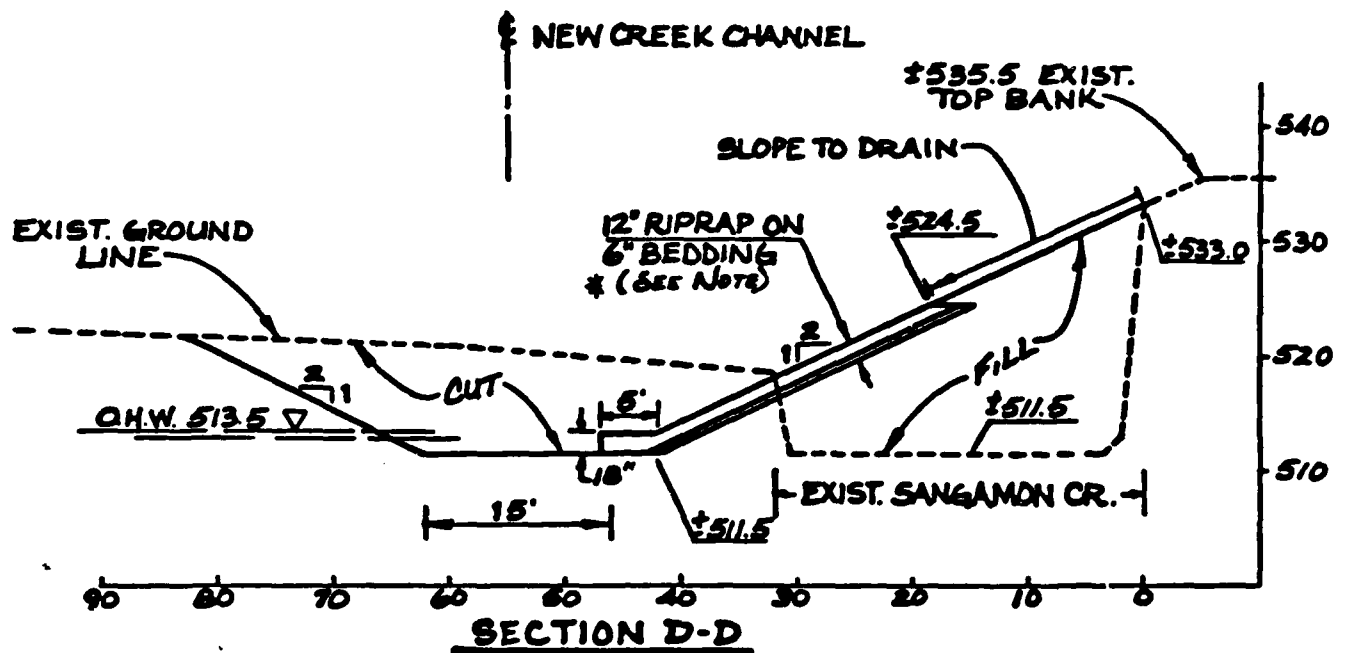




*** NOTE :**

TOE OF RIPRAPPED SLOPE IS TO BE KEYPED INTO THE RIVER BOTTOM AND PROVIDE A TOE PROTECTION BLANKET 5 FEET WIDE BY 18 INCHES THICK, AS SHOWN.

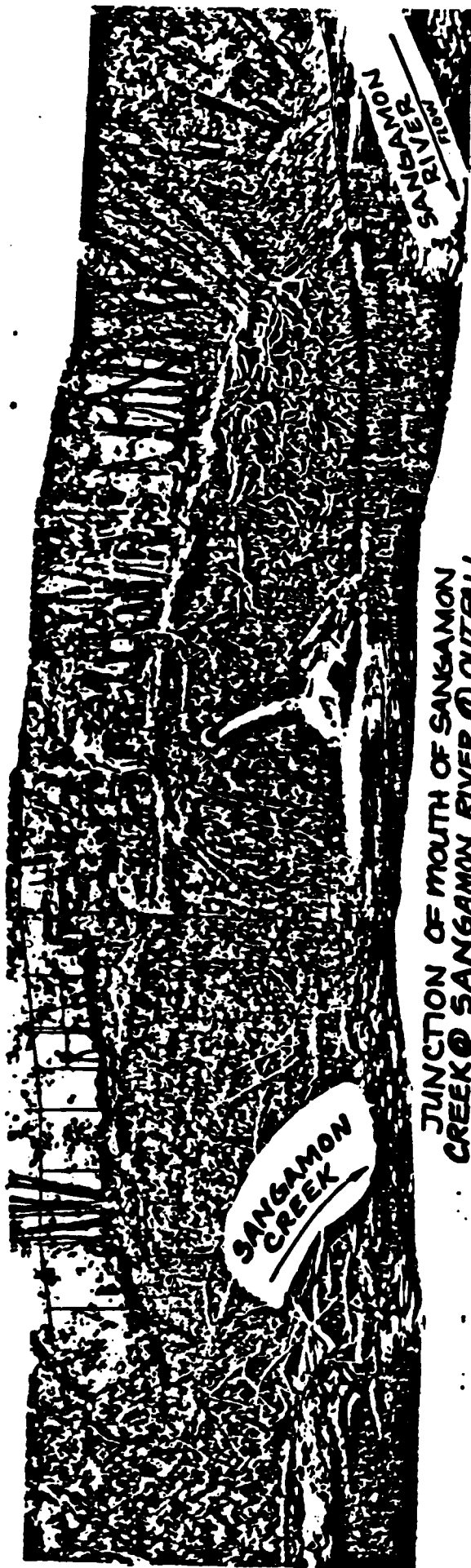
SANGAMON RIVER
RIVERTON, ILLINOIS
MUNICIPAL
SEWAGE TREATMENT FACILITY
BANK EROSION
TYPICAL SECTION



*** NOTE:**

TOE OF RIPRAPPED SLOPE IS TO BE KEYED INTO THE RIVER BOTTOM AND PROVIDE A TOE PROTECTION BLANKET 5 FEET WIDE BY 18 INCHES THICK, AS SHOWN.

SANGAMON RIVER
RIVERTON, ILLINOIS
MUNICIPAL
SEWAGE TREATMENT FACILITY
BANK EROSION
TYPICAL SECTION



JUNCTION OF MOUTH OF SANGAMON
CREEK @ SANGAMON RIVER @ OUTFALL
OCT 86

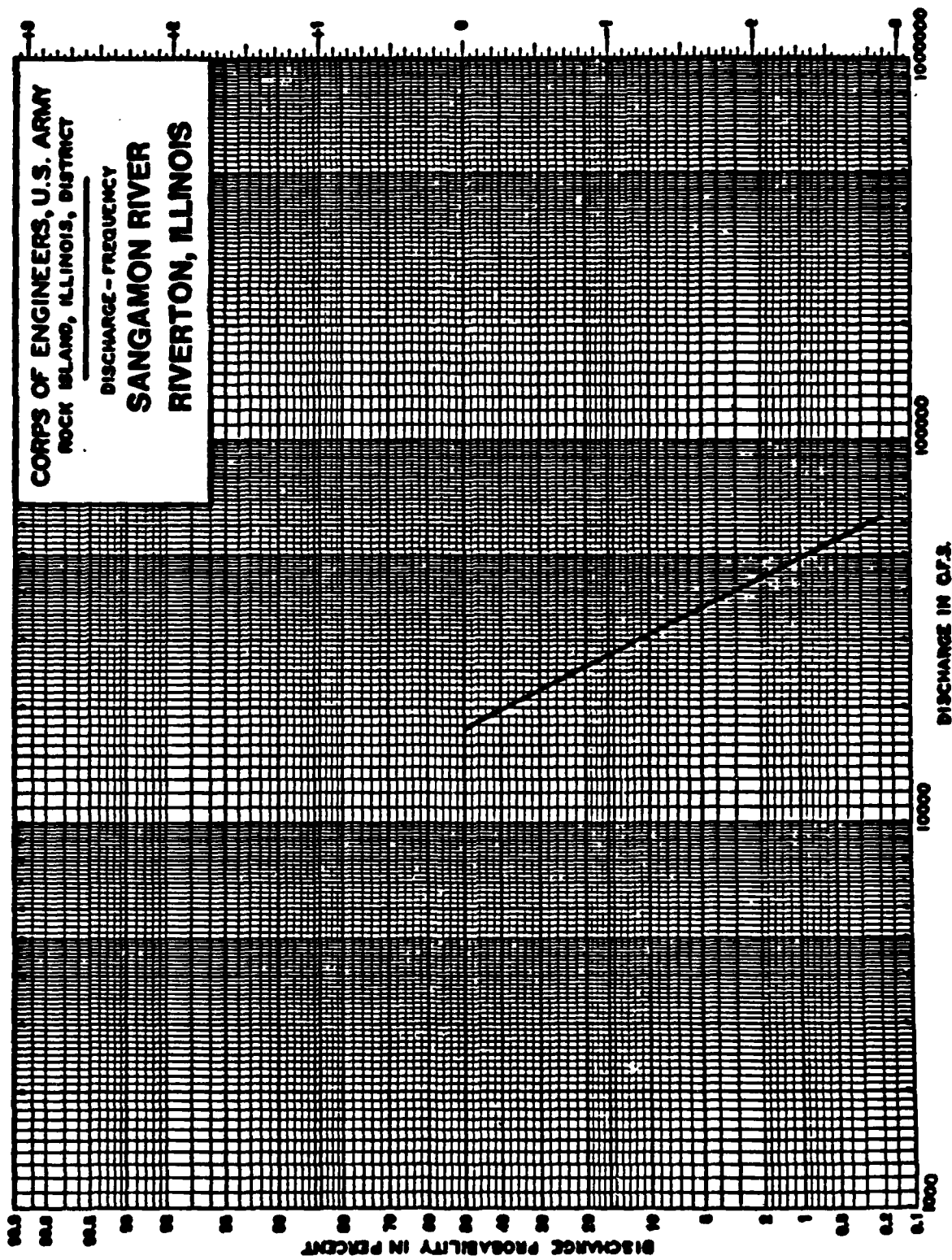


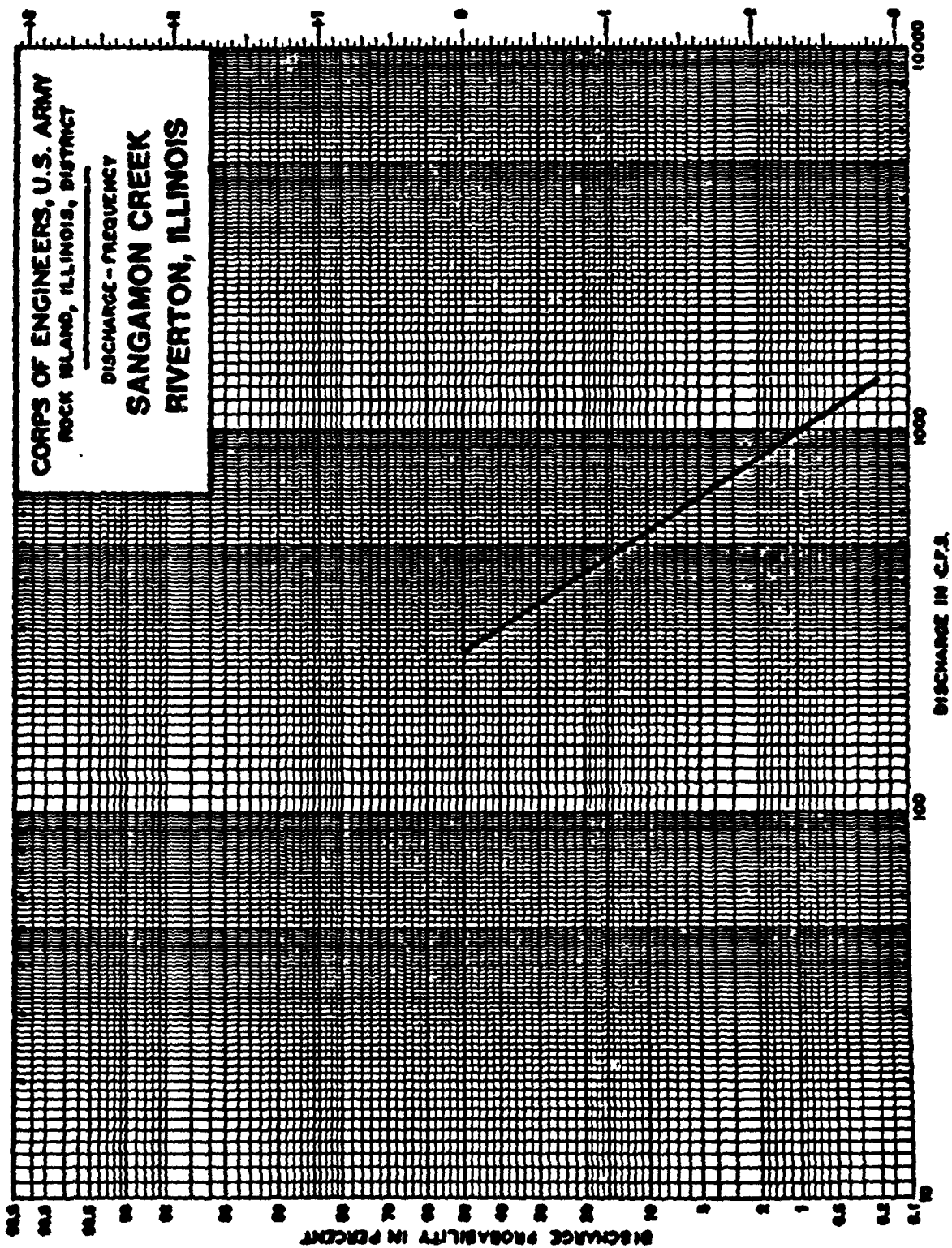
MOUTH OF SANGAMON CREEK @ EFFLUENT OUTFALL
OCT 86



EFFLUENT OUTFALL MANHOLE
OCT. 86

CORPS OF ENGINEERS, U.S. ARMY
ROCK ISLAND, ILLINOIS, DISTRICT
DISCHARGE - FREQUENCY
SANGAMON RIVER
RIVERTON, ILLINOIS





PERTINENT CORRESPONDENCE

Appendix

**DEFINITE PROJECT REPORT
FOR
EMERGENCY STREAMBANK PROTECTION
SANGAMON RIVER
SEWAGE TREATMENT FACILITY
RIVERTON, ILLINOIS**

**Pertinent Correspondence
Appendix**

TABLE OF CONTENTS

Letter from U.S. Representative Robert H. Michel, asking Corps to look at the erosion problem, dated 3 October 1986.

Letter from the Village of Riverton, Illinois, requesting Section 14 assistance, dated 21 October 1986.

Letter to Mr. Theodore W. Hild, Deputy State Historic Preservation Officer, Illinois, from CENCR-PD, dated 7 July 1987, w/ stamp of concurrence with project, dated 17 July 1987.

Letter to NCRDD from Illinois Environmental Protection Agency granting 401 Water Quality Certification, dated 3 August 1987.

Telephone conversation record between CENCR-PD-E and U.S. Environmental Protection Agency, Chicago office, dated 25 August 1987.

Telephone conversation record between CENCR-PD-E and U.S. Environmental Protection Agency, Chicago office, dated 26 August 1987.

Telephone conversation record between CENCR-PD-E and U.S. Fish & Wildlife Service, Rock Island field office, dated 25 August 1987.

Telephone conversation record between CENCR-PD-E and U.S. Fish & Wildlife Service, Rock Island field office, dated 26 August 1987.

Telephone conversation record between CENCR-PD-E and Illinois Dept. of Conservation, Springfield office, dated 26 August 1987.

Telephone conversation record between CENCR-PD-E and Illinois Dept. of Conservation, Springfield office, dated 28 August 1987.

Letter of Assurance from the village of Riverton, Illinois, dated 15 September 1987.

Telephone conversation record between CENCR-PD-E and U.S. Fish & Wildlife Service, Rock Island Field Office, dated 19 October 1987.

(Revised Dec 87)

Pertinent Correspondence Cont'd

Letter to CENCR from the Illinois State Clearinghouse, Office of the Governor, dated November 6, 1987.

Letter to CENCR-PD from the Director, Illinois Department of Transportation, Division of Water Resources, dated November 25, 1987.

Telephone Conversation Record documentation of coordination which occurred after normal public review of the subject report, with the U.S. Environmental Protection Agency (their letter to CENCR dated November 4, 1987), and CENCR-PD-E's responses to two recommendations which resulted, dated 4 December 1987 and 23 December 1987.

(Revised Dec 87)

ROBERT H. MICHEL
18TH DISTRICT, ILLINOIS

Congress of the United States
House of Representatives
Washington, DC 20515
October 3, 1986

Colonel W. E. Burns, District Engineer
Department of the Army
Rock Island District, Corps of Engineers
Clark Tower Building
Rock Island, IL 61201

Dear Col. Burns:

The village president of Riverton, Mr. Joe Rusciollelli, recently telephoned my Jacksonville district office with his concern about the erosion of the bank of the Sangamon River in relation to the sewer treatment plant at Riverton.

According to Mr. Rusciollelli, it will be only a short time--a matter of a couple of months--until this erosion will create an extremely serious problem for the village and the Sangamon River. The engineer for the village has indicated that rip rapping needs to be done at the earliest possible time.

Your checking into this situation and giving me a report will be appreciated .

Sincerely,



Robert H. Michel
Member of Congress

RHM:sd

☐ 2112 Rayburn Building
Washington, DC 20515
(202) 225-6201

RESPOND TO:
☐ 100 NE Monroe, Room 107
Peoria, IL 61602
(309) 671-7027

☒ 236 WEST STATE STREET
JACKSONVILLE, FL 32200
(917) 245-1431

VILLAGE OF RIVERTON

313 East Jefferson Street

● Riverton, Illinois 62561 ●

Telephone—(217) 629-9122

October 21, 1986

Mr. Joe Ross
Planning Division
U. S. Army Engineer District
Rock Island
Clock Tower Building
Rock Island, Illinois 61201

Dear Mr. Ross:

This letter is to seek the assistance of the U. S. Army Corps of Engineers under Section 14 of the 1946 Flood Control Act, in providing erosion protection to the Village of Riverton Sewer Plant.

Your consideration of this request would be greatly appreciated. In the event that you desire additional information, please contact Mr. James Vasconcelles, Engineer for the Village of Riverton, Vasconcelles Engineering Corporation, 826 West Laurel, Springfield, IL 62704, Telephone number (217) 544-9861.

Sincerely,

VILLAGE OF RIVERTON

Joe Rusciolelli

Joe Rusciolelli, President
Village Board of Riverton

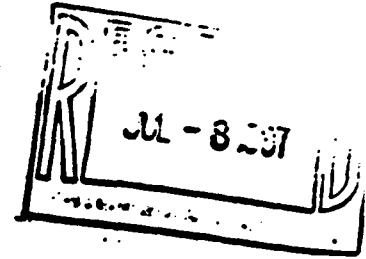
JR:mt



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
ROCK ISLAND DISTRICT, CORPS OF ENGINEERS
CLOCK TOWER BUILDING - P.O. BOX 2004
ROCK ISLAND, ILLINOIS 61204-2004

July 7, 1987



Planning Division

Mr. Theodore W. Hild
Deputy State Historic
Preservation Officer
Illinois Historic
Preservation Agency
Old State Capitol Building
Springfield, Illinois 62701

HPA REVIEW

H/A _____
AC / _____
AR _____
File _____

Dear Mr. Hild:

The Rock Island District is currently considering plans to assist the Municipal Sewage Treatment Facility at Riverton, Illinois, in an emergency bank stabilization project. Erosion of a 4-meter-high streambank located at the confluence of an intermittent tributary and the Sangamon River is threatening the sewage treatment facility. The project is located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 16 N., R. 4 W., Sangamon County, Illinois (Map 1). The Corps proposes to place fill into the existing intermittent stream cut in order to stabilize the eroding south bank. A new 10-foot-wide channel approximately 30 meters long will be cut north of the fill area (Map 2). An archeological survey was done to assess the impact of the proposed bank stabilization to significant historic properties.

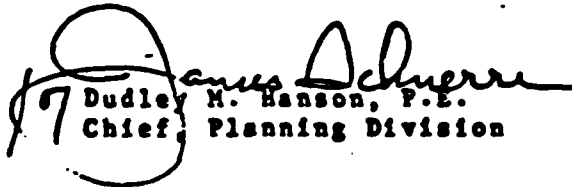
District Archeologists Kenneth Barr and Charles Smith conducted a cultural resources survey of the proposed project area on June 24, 1987. Careful inspection along the 4-meter-high erosional bank, combined with trowel scraping, indicated that this area had been disturbed by modern historic dumping of fill and trash. Numerous post 19th century bottles, mixed with coal debris, plastic, and other modern refuse, were observed in the upper 2 meters of the cutbank. The fill rested immediately on top of a culturally sterile B horizon. Inspection of erosional banks, combined with soil probing, identified the proposed new channel alignment area as being highly reworked by lateral migration of the intermittent tributary across its floodplain. No cultural artifacts or features were identified in this area.

-2-

Based on these field observations, it is our opinion that there are no significant historic properties present in the proposed project area. Please comment on this project within 30 days. If you have any questions on this action, please call Mr. Kenneth Barr at 309/788-6361, Ext. 349, or write to the following address:

District Engineer
U.S. Army Engineer District, Rock Island
ATTN: Planning Division
Clock Tower Building - P.O. Box 2004
Rock Island, Illinois 61204-2004

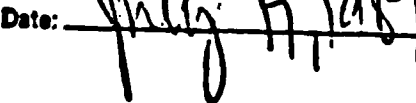
Sincerely,


Dudley M. Hanson, P.E.
Chief, Planning Division

Enclosures

CONCUR

By: 
Deputy State Historic Preservation Officer

Date: 



217/782-0610

Rock Island District Corps of Engineers (Sangamon County)
Bank Revetment - Sangamon Creek
Log #C-537-87

August 3, 1987

Mr. Henry G. Pfiester, P.E.
Chief of Operations
Rock Island District
Corps of Engineers
Clock Tower Building
Rock Island, Illinois 61201

Dear Mr. Pfiester:

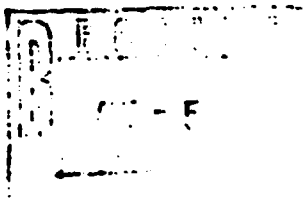
This Agency received a request on July 27, 1987, from the Rock Island District Corps of Engineers requesting necessary comments for environmental consideration concerning the relocation and revetment of approximately 175 feet of Sangamon Creek at the confluence with the Sangamon River, in Riverton. We offer the following comments.

Based on the information included in this submittal, it is our engineering judgment that the proposed project may be completed without causing water pollution as defined in the Illinois Environmental Protection Act, provided the project is carefully planned and supervised.

These comments are directed at the effect on water quality of the construction procedures involved in the above described project and is not an approval of any discharge resulting from the completed facility, nor an approval of the design of the facility. These comments do not supplant any permit responsibilities of the applicant towards this Agency.

This Agency hereby issues certification under Section 401 of the Clean Water Act (PL 95-217), subject to the applicant's compliance with the following conditions:

1. The applicant shall not cause:
 - a. violation of applicable water quality standards of the Illinois Pollution Control Board, Title 35, Subtitle C: Water Pollution Rules and Regulations;
 - b. water pollution as defined and prohibited by the Illinois Environmental Protection Act; and
 - c. interference with water use practices near public recreation areas or water supply intakes.



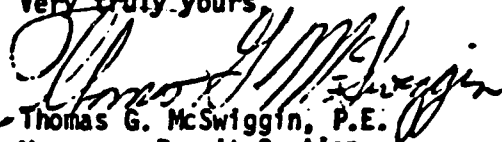


Page 2

2. The applicant shall provide adequate planning and supervision during the project construction period for implementing construction methods, processes and cleanup procedures necessary to prevent water pollution and control erosion.
3. Any spoil material excavated, dredged or otherwise produced must not be returned to the waterway but must be deposited in a self-contained area in compliance with all State statutes, regulations and permit requirements with no discharge to the waters of the State unless a permit has been issued by this Agency. Any back filling must be done with clean material and placed in a manner to prevent violation of applicable water quality standards.
4. All areas affected by construction shall be mulched and seeded as soon after construction as possible. The applicant shall undertake necessary measures and procedures to reduce erosion during construction. Interim measures to prevent erosion during construction shall be taken and may include the installation of staked straw bales, sedimentation basins and temporary mulching. All construction within the waterway shall be conducted during zero or low flow conditions.
5. The applicant shall advise the City of Riverton of the construction and any subsequent changes to avoid interference with the operation of the sewage treatment plant.
6. This certification becomes effective when the Department of the Army, Corps of Engineers, includes the above conditions #1 through 5 as conditions of the requested permit issued pursuant to Section 404 of PL. 95-217.

This certification does not grant immunity from any enforcement action found necessary by this Agency to meet its responsibilities in prevention, abatement, and control of water pollution.

Very truly yours,


Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:BY:st:3238g,62-63

Attachment

cc: IEPA, DWPC, Records Unit
DWPC, Field Operations Section, Region 5
IDOT, Division of Water Resources, Springfield
USEPA, Region V

CONVERSATION RECORD			TIME 10:15	DATE 25 AUG 87
TYPE	<input type="checkbox"/> VISIT	<input type="checkbox"/> CONFERENCE	<input checked="" type="checkbox"/> TELEPHONE	
			<input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING	
Location of Visit/Conference:				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU		ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.	
KAY BRENNAN		US EPA CHICAGO, IL	(312) 886-6873	
SUBJECT: SANGAMON RIVER, RIVERTON, IL, SECT 14				
SUMMARY (1) I EXPLAINED THE PROPOSED PROJECT AND GAVE AN EVALUATION OF THE IMPACTS. (2) MS BRENNAN SAID SHE HAD NO COMMENTS TO MAKE AT THIS TIME BUT WOULD LIKELY PROVIDE COMMENTS WHEN THE REPORT WAS CIRCULATED FOR PUBLIC REVIEW!				

ACTION REQUIRED

THIS TELECON WILL BECOME PART OF PERTINENT CORRESPONDENCE.

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
BOB VANDERTACK	Robert C. Vandertack	25 AUG 87

ACTION TAKEN

NOTE: SEE FOLLOW-UP PHONE CALL DATED 26 AUG 87

SIGNATURE	TITLE	DATE

CONVERSATION RECORD			TIME	DATE
TYPE <input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE			26 AUG 87	
Location of Visit/Conference: NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU KAY BRENNAN			ORGANIZATION (Office, Dept., Bureau, etc.) USEPA CHICAGO, IL	
SUBJECT SANGAMIN RIVER, RIVERTON, IL, SECT 14			TELEPHONE NO. (312) 886-6873	
			<input checked="" type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING	
			ROUTING NAME/SYMBOL INT	

SUMMARY
 ① MS BRENNAN HAD DISCUSSED THE PROJECT WITH HER CO-WORKERS AND THE FOLLOWING QUESTIONS WERE GENERATED:

(A) WHAT WILL BE THE FISHERIES IMPACT OF THE PROJECT?

(B) WILL THE LOSS OF TREES BE COMPENSATED FOR?

② AT A LATER TIME I CALLED MS BRENNAN BACK AND PROVIDED THE FOLLOWING INFORMATION:

THE STRETCH OF THE SANGAMIN RIVER WHERE THE SUBJECT PROJECT IS LOCATED IS IN THE INVENTORY OF RIVERS CONSIDERED ELIGIBLE FOR LISTING AS "WILD AND SCENIC". IT IS INCLUDED BECAUSE OF ITS RECREATIONAL AND SCENIC VALUES.

ACTION REQUIRED

THIS TELECON WILL BECOME PART OF PERTINENT CORRESPONDENCE.

NAME OF PERSON DOCUMENTING CONVERSATION BOB VANDERJACK	SIGNATURE Robert C. Vanderjack	DATE 26 AUG 87
--	--	--------------------------

ACTION TAKEN

SIGNATURE	TITLE	DATE
-----------	-------	------

CONVERSATION RECORD

TIME

1315 Hrs

DATE

25 AUG 87

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

CHUCK DAVIS

ORGANIZATION (Offices, Dept, Bureau, etc.)

U.S. FWS Rock Island Field Office

TELEPHONE NO.

(309) 793-5800

SUBJECT

SANGAMON RIVER, RIVERTON, IL, SECT 14

SUMMARY

① I EXPLAINED THE PROPOSED PROJECT, AN EVALUATION OF IMPACTS, AND THAT BECAUSE OF THE EMERGENCY NATURE OF THE PROJECT THERE WOULD BE NO NEPA DOCUMENT PRODUCED OR SECTION 404 PUBLIC NOTICE ISSUED.

② MR DAVIS SAID HE HAD NO COMMENTS TO MAKE AT THIS TIME, WOULD LIKEY COMMENT WHEN THE PROJECT REPORT IS RECEIVED FOR REVIEW, AND THAT NO SIGNIFICANT PROBLEMS WERE ANTICIPATED.

MFR: THE DISCUSSION OF IMPACTS

NOTED ABOVE INCLUDED POTENTIAL

IMPACTS TO THE INDIANA BAT

(Myotis sodalis), A FEDERALLY LISTED

ENDANGERED SPECIES.
RCV 26 AUG 87

ACTION REQUIRED

THIS TELECON WILL BECOME PART OF PERTINENT CORRESPONDENCE.

NAME OF PERSON DOCUMENTING CONVERSATION

BOB VANDERSACK

SIGNATURE

Robert C. Vandeyck

DATE

25 AUG 87

ADDITIONAL

NOTE: SEE FOLLOW UP TELEPHONE CALL DATED 26 AUG 87

SIGNATURE

TITLE

DATE

CONVERSATION RECORD			TIME 1530	DATE 26 Aug 87
TYPE	<input type="checkbox"/> VISIT	<input type="checkbox"/> CONFERENCE	<input checked="" type="checkbox"/> TELEPHONE	
			<input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING	
Location of Visit/Conference:				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU		ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.	
CHUCK DAVIS		US FWS, ROCK ISLAND FIELD OFFICE	(309) 793-5800	
SUBJECT SANGAMON RIVER, RIVERTON, IL, SECT 14				

SUMMARY

(1) I CONVEYED TO MR DAVIS THE FOLLOWING NEWLY ACQUIRED INFORMATION.

(2) THE STRETCH OF THE SANGAMON RIVER WHERE THE SUBJECT PROJECT IS LOCATED IS IN THE INVENTORY OF RIVERS CONSIDERED ELIGIBLE FOR LISTING AS "WILD AND SCENIC". IT IS INCLUDED BECAUSE OF ITS RECREATIONAL AND SCENIC VALUES.

ACTION REQUIRED

THIS TELECON WILL BECOME PART OF PERTINENT CORRESPONDENCE

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
BOB VANDERSACK	Robert C. Vandeyack	26 AUG 87

ACTION TAKEN

SIGNATURE	TITLE	DATE

50271-101 U.S. G.P.O. 1985-485-494 CONVERSATION RECORD OPTIONAL FORM 271 (12-76) DEPARTMENT OF DEFENSE

CONVERSATION RECORD			TIME	DATE
				26 Aug 87
TYPE	<input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE <div style="text-align: right;"><input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING</div>			
Location of Visit/Conference:				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.		
BOB SCHANZLE	ILL DOC SPRINGFIELD, IL	(217) 782-4543		
SUBJECT				
SANGAMON RIVER, RIVERTON, IL, SECT 14.				
ROUTING				
NAME/SYMBOL				INT

SUMMARY

(1) I EXPLAINED THE PROPOSED PROJECT, GAVE AN EVALUATION OF THE IMPACTS, AND EXPLAINED THAT THIS STRETCH OF THE SANGAMON RIVER IS IN THE INVENTORY OF RIVERS CONSIDERED ELIGIBLE FOR LISTING AS "WILD AND SCENIC". IT IS INCLUDED BECAUSE OF ITS RECREATIONAL AND SCENIC VALUES.

(2) MR SCHANZLE'S INITIAL REACTION WAS THAT IT WOULD BE DESIRABLE IF THE RELOCATION OF THE STREAM CHANNEL COULD BE AVOIDED.

(3) MR SCHANZLE SAID HIS DEPARTMENT WOULD LIKELY COMMENT FURTHER WHEN THE PROJECT REPORT WAS RECEIVED FOR REVIEW.

ACTION REQUIRED

THIS TELECON WILL BECOME PART OF "PERTINENT CORRESPONDENCE."

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
BOB VANDERJACK	Robert C. Vanderjick	26 Aug 87

ACTION TAKEN

SIGNATURE	TITLE	DATE

CONVERSATION RECORD

TIME
1600DATE
28 AUG 87

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT
WITH YOU

TOM GILBERT

ORGANIZATION (Office, Dept., Bureau,
etc.)NAT. PARK SERVICE
OMAHA, NEBRASKA

TELEPHONE NO.

(402)
221-3481

SUBJECT

SANGAMON RIVER, RIVERTON, IL, SECT 14

ROUTING

NAME/SYMBOL

INT

SUMMARY

- ① I EXPLAINED THE PROJECT, AN EVALUATION OF IMPACTS, AND THAT THE PROPOSED PROJECT WAS LOCATED ON A SEGMENT OF THE SANGAMON RIVER WHICH WAS IN THE INVENTORY OF RIVERS CONSIDERED ELIGIBLE FOR LISTING AS "WILD AND SCENIC" BECAUSE OF ITS SCENIC AND RECREATIONAL VALUES.
- ② MR GILBERT DIDN'T THINK THE PROJECT WOULD HAVE SIGNIFICANT EFFECTS ON THE QUALITY OF THE RIVER.
- ③ MR GILBERT RECOMMENDED THE CONSIDERATION OF THE USE OF TREES AND OTHER VEGETATION CABLED TO THE SHORELINE WHICH CAN ENCOURAGE SEDIMENTATION AND STABILIZE THE BANK LINE. (i.e. SIMILAR TO THE PALMITER METHOD).
- ④ HE SAID HE REALIZED THIS WASN'T A UNIVERSAL CURE FOR BANK EROSION BUT HE HAD OBSERVED PROJECTS WHERE THIS METHODOLOGY HAS BEEN SUCCESSFUL.

ACTION REQUIRED

THIS TELECON WILL BECOME A PART OF "PERTINENT CORRESPONDENCE"

NAME OF PERSON DOCUMENTING CONVERSATION

BOB VANDERSACK

SIGNATURE

Robert C. Vanderjick

DATE

28 AUG 87

ACTION TAKEN

SIGNATURE

TITLE

DATE

VILLAGE OF RIVERTON

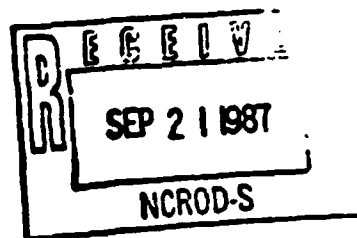
313 East Jefferson Street

● Riverton, Illinois 62561 ●

Telephone—(217) 629-9122

September 15, 1987

Colonel Neil A. Smart
District Engineer
U.S. Army Engineer District, Rock Island
Clock Tower Building, P. O. Box 2004
Rock Island, Illinois 61204-2004



Dear Colonel Smart:

The Village of Riverton, Illinois has reviewed the draft of the proposed Local Cooperation Agreement covering streambank erosion control on the Sangamon at Riverton, Illinois. The Agreement includes the following obligations to be carried out by the Village of Riverton:

- A. Provide, without cost to the Government, during the period of construction, all lands, easements, rights-of-way, and utility and facility alterations and relocations required for construction and maintenance of the project, regardless of their value.
- B. Make a cash payment of not less than 5 percent of total project costs during the period of construction, regardless of the value of the items in A above. If the value of the items in A above is less than 20 percent of total project costs, the Village of Riverton shall, during the period of construction, make such additional cash payments as are necessary to bring its total contribution in cash and value of lands, easements, rights-of-way, and utility and facility alterations and relocations, to an amount equal to 25 percent of total project costs.
- C. Contribute all project costs in excess of the Federal statutory limitation of \$500,000.
- D. Hold and save the Government free from all damages arising from the construction, operation, maintenance, and rehabilitation of the completed project, except for damages due to the fault or negligence of the Government or its contractors.
- E. Operate, maintain, and rehabilitate the project upon completion in accordance with regulations or directions prescribed by the Secretary of the Army.
- F. Accomplish without cost to the United States all alterations and relocations of buildings, transportation facilities, storm drains utilities, and other structures and improvements made necessary by construction of the project.
- G. Comply with the applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, approved January 2, 1971 in acquiring lands, easements, and rights-of-way for construction and subsequent operation and maintenance of the project, and inform all affected

Colonel Neil A. Smart
September 15, 1987
Page -2-

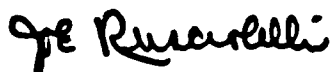
persons of applicable benefits, policies, and procedures in connection with said Act.

- H. Comply with Section 601 of Title VI of the Civil Rights Act of 1964 (Public Law 88-352) and Department of Defense Directive 5500.11 issued pursuant thereto and published in Part 300 of Title 32, Code of Federal Regulations, in connection with the construction, operation, and maintenance of the project.
- I. Prior to construction, and in accordance with the provisions of Section 221 of Public Law 91-611, the Village of Riverton will enter into a contract with the Government whereby the Village of Riverton will grant the Government a right to enter, at reasonable times and in a reasonable manner, upon land which the Village of Riverton owns or controls for access to the project, for the purpose of inspection, and, if necessary, for the purpose of completing, operating, repairing, maintaining and rehabilitating the project. If an inspection shows that the Village of Riverton, for any reason, is failing to complete, operate, repair, maintain or rehabilitate the project in accordance with the assurances hereunder, the Government will send a written notice to the Village of Riverton. If the Village of Riverton persists in such failure for thirty (30) calendar days after receipt of the notice, then the Government shall have a right to enter, at reasonable times and in a reasonable manner, upon the land that the Village of Riverton owns or controls for access to the project for the purpose of completing, operating, repairing, maintaining and rehabilitating the project. No completion, operation, repair, maintenance, or rehabilitation by the Government shall operate to relieve the Village of Riverton of responsibility to meet its obligations as set forth in the Agreement, or to preclude the Government from pursuing any other remedy at law or equity to assure faithful performance pursuant to the Agreement.

The Village of Riverton is willing and able to pay its share of the total project costs. Sufficient funds are on hand or can be raised quickly, and the cash payment can be deposited directly with the Government, or in an escrow account, upon demand by the Government.

This is to advise that if the Definite Project Report for Emergency Streambank Protection Sangamon River Sewerage Treatment Facility, Riverton, Illinois is approved substantially in its present form as reviewed by the Village of Riverton as submitted for approval by Corps of Engineers' higher authority, the Village of Riverton is willing, and legally and financially able, to sign the referenced Local Cooperation Agreement which includes the obligations set forth above.

Sincerely,



Joe Rusciollelli, President
Village Board of Riverton

JR:nt

CONVERSATION RECORD

TIME P.M.

DATE 19 Oct 87

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

GERRY BADE

ORGANIZATION (Office, Dept., Bureau, etc.)

U.S. F.W.S.
Rock Is. Field Office

TELEPHONE NO.

(309)
793-5800

SUBJECT

SANGAMON RIVER, RIVERTON, IL, SECT 14

(PROTECTION OF SEWAGE TREATMENT PLANT)

SUMMARY

① MR BADE'S OFFICE HAD RECEIVED THE RIVERTON PROJECT REPORT FOR REVIEW EARLIER.

② MR BADE HAD NO MAJOR CONCERNS WITH THE PROJECT AS PROPOSED. HE THOUGHT PROTECTING THE SEWAGE TREATMENT PLANT FROM POTENTIALLY CONTAMINATING THE RIVER WAS A POSITIVE ATTRIBUTE.

③ HE CONCURRED WITH THE DETERMINATION OF NO EFFECT ON FEDERALLY LISTED ENDANGERED SPECIES.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

BOB VANDERTACK

SIGNATURE

Robert C. Vanderjack

DATE

20 Oct 87

ACTION TAKEN

SIGNATURE

TITLE

DATE



STATE OF ILLINOIS
OFFICE OF THE GOVERNOR
SPRINGFIELD 62706

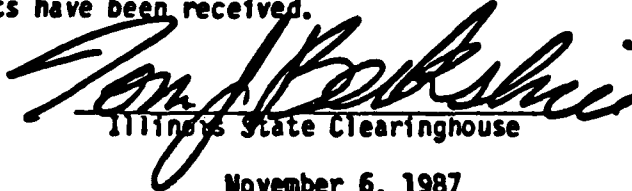
JAMES R. THOMPSON
GOVERNOR

SAI# 87-10-02-26

SUBJECT: Draft Definite Project Report for Section 14 Emergency
Streambank Protection

TO: Neil A. Smart
Planning Division
Department of the Army
Rock Island District, Corps of Engineers
Clock Tower Building-P.O. Box 2004
Rock Island, Illinois 61204-2004

The Illinois State Clearinghouse has reviewed the reference subject pursuant to the National Environmental Policy Act of 1969. State agencies which are authorized to develop and enforce environmental standards have been given the opportunity to comment on this subject. At this time no comments have been received.


Illinois State Clearinghouse

November 6, 1987



Illinois Department of Transportation

Division of Water Resources
2300 South Dirksen Parkway/Springfield, Illinois/62764

November 25, 1987

Colonel Neil A. Smart
District Engineer
U.S. Army Corps of Engineers
Rock Island District
Planning Division
Clock Tower Bldg.
P. O. Box 2004
Rock Island, Illinois 61204-2004

Dear Col. Smart:

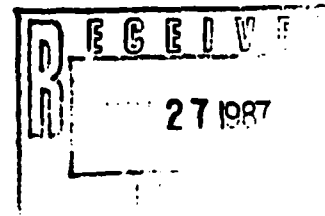
This letter is to inform you of our concurrence with the emergency stream bank protection along Sangamon Creek at the junction of the Sangamon River at Riverton, Illinois.

Please contact us if you have any further questions.

Sincerely,

A handwritten signature in cursive script that reads "Donald R. Vonnahme".

Donald R. Vonnahme
Director



CONVERSATION RECORD			TIME 0830	DATE 23 Dec 87
TYPE <input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE			<input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING	
Location of Visit/Conference:				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU		ORGANIZATION (Office, Dept., Bureau, etc.)		TELEPHONE NO.
JENNIFER BROWN		USEPA, REGION 5, CHICAGO, ILLINOIS		(312) 886-6873
SUBJECT				
RIVERTON, IL; SEWAGE TREATMENT PLANT, SANGAMIN RIVER, SECT 14.				
SUMMARY				
(1) I CALLED MS. BROWN REGARDING THE U.S. EPA LETTER OF 4 NOV 1987 (COPY ATTACHED). FISHERY IMPACTS, WATER QUALITY IMPACTS, AND ALTERNATIVES TO THE RECOMMENDED PLAN WERE ITEMS OF CONCERN.				
(2) WATER QUALITY: SECT. 401 CERTIFICATION HAD BEEN RECEIVED FROM ILL EPA BY LETTER DATED 3 AUG 87. I HAD CALLED ILL EPA EARLIER TO REAFFIRM THAT THEY HAD NO MAJOR CONCERNS ABOUT WATER QUALITY IMPACTS FROM THE PROJECT AS DESCRIBED. I THEN RELAYED THIS TO MS BROWN AND PROVIDED A POINT OF CONTACT AT ILL EPA (I.E. BRUCE YURDIN, PERMIT SECTION, DIVISION OF WATER POLLUTION CONTROL, (217) 782-1654).				
(3) FISHERY: I HAD TALKED TO THE ILL. DOC FISHERY BIOLOGIST FOR SANGAMIN CO. (I.E. RANDY SAUER; TELECON ATTACHED) AND OBTAINED FISHERY INFORMATION ON THE (CONT'D)				
ACTION REQUIRED				
NAME OF PERSON DOCUMENTING CONVERSATION		SIGNATURE		DATE
ACTION TAKEN				
SIGNATURE		TITLE		DATE

CONVERSATION RECORD		TIME 0830	DATE 23 DEC 87
TYPE		ROUTING	
<input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE		<input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING	
Location of Visit/Conference:			
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU JENNIFER BROWN	ORGANIZATION (OFFICE, OFFICE, BUREAU) U.S. EPA, REGION 5, CHICAGO, ILLINOIS	TELEPHONE NO. (312) 886-6873	
SUBJECT RIVERTON, IL; SENGAGE TREATMENT PLANT, SANGAMIN RIVER, SECT 14.			

SUMMARY
(3) FISHERY; CONT'D.

PROJECT AREA. I HAD RELAYED THIS INFORMATION TO MS BROWN EARLIER AND HAD PROVIDED MR SAUER'S NAME AND TELEPHONE NO. AS A POINT OF CONTACT.

(4) ALTERNATIVES: IN AN EARLIER PHONE CALL WITH MS. BROWN I HAD DISCUSSED ALTERNATIVES CONSIDERED (I.E. GABIONS, NO ACTION, AND THE RECOMMENDED PLAN) AND WHY THE RECOMMENDED PLAN WAS SELECTED.

(5) MS BROWN SAID THE INFORMATION PROVIDED HAD BEEN CONSIDERED AND THEY WOULD STRINGLY RECOMMEND LIMITING CONSTRUCTION TO THE PERIOD FROM OCTOBER TO MARCH TO MINIMIZE IMPACTS TO SPANNING FISH.

ACTION REQUIRED

THIS INFORMATION WILL BE PROVIDED TO THE PROJECT MANAGER.

NAME OF PERSON DOCUMENTING CONVERSATION BOB VANDERJACK	SIGNATURE Robert C. Vandeyack	DATE 23 DEC 87
---	----------------------------------	-------------------

ACTION TAKEN

SIGNATURE	TITLE	DATE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST.

CHICAGO, ILLINOIS 60604

04 NOV 1987

REPLY TO THE ATTENTION OF:

5ME-14

**Colonel Neil A. Smart
Department of the Army
Rock Island District, Corps of Engineers
ATTN: Planning Division
Clock Tower Building - P.O. Box 2004
Rock Island, Illinois 61204-2004**

Dear Colonel Smart:

The U.S. Environmental Protection Agency (USEPA) has reviewed the Draft Definite Project Report for Section 14 Emergency Streambank Protection, Sangamon River, Sewage Treatment Facility, Riverton, IL. The proposed project involves using channel relocation and the placement of riprap to stop erosion at the Riverton Sewage Treatment Facility.

On page 9 of the Project Report you responded to our question, "What will be the fisheries impact of the project?" The response provided was inadequate. We request information on the types and abundances of fish species presently in the proposed project area and how they will be impacted by the proposed action. We also request information on the steps that will be taken to reduce negative impacts to the fisheries. We recommend, for example, that construction be timed to avoid fish spawning seasons.

Water quality was not addressed in the Project Report. Information should be provided on the effects of the proposed project on the following: water current, temperature, and oxygen content, and sedimentation patterns. We recommend that water quality be monitored throughout the project, to identify and remedy any problems that might arise.

In the Project Report, little treatment is given to alternatives to the proposed project. In order to be able to fully determine the merit of the project, we request additional information on alternatives which have been considered and why they were eliminated from further evaluation.

Thank you for the opportunity to provide comments on the Draft Definite Project Report. Please contact Ms. Jennifer Brown of my staff at (312) 886-6873, if you have questions on our comments or if you require additional assistance.

Sincerely yours,

A handwritten signature in cursive script, reading "William D. Franz", is written over the typed name.

**William D. Franz, Chief
Environmental Review Branch
Planning and Management Division**

CONVERSATION RECORD			TIME —	DATE 4 DEC 87
TYPE	<input type="checkbox"/> VISIT	<input type="checkbox"/> CONFERENCE	<input checked="" type="checkbox"/> TELEPHONE	
			<input checked="" type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING	
Location of Visit/Conference:				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.		
RANDY SAUER	ILL DIC FISHERY BIOLOGIST, SANGAMON CO.	(618) 594-3627		
SUBJECT RIVERTON, ILL; SEWAGE TREATMENT PLANT, SANGAMON RIVER, SECT 14.				
SUMMARY				
① MR SAUER WAS RESPONDING WITH INFORMATION I HAD REQUESTED THROUGH MR BOB SCHAELE, ILL DIC, DIVISION OF PLANNING AND INFORMATION (217-785-4863).				
② MR SAUER PROVIDED THE FOLLOWING LIST OF 14 SPECIES AND ONE FAMILY OF FISH FOUND IN THE SANGAMON RIVER NEAR RIVERTON, ILLINOIS. THE SPECIES LIST IS NOT EXHAUSTIVE SINCE IT IS BASED ON 1982 ELECTROSHOCKING DATA AND OTHER SAMPLING METHODS SUCH AS SEINING MIGHT PRODUCE ADDITIONAL SPECIES:				
GIZZARD SHAD (<i>Dorosoma cepedianum</i>)				
CARP (<i>Cyprinus carpio</i>)				
RIVER CARPSUCKER (<i>Catpiodes carpio</i>)				
HIGHFIN CARPSUCKER (<i>Carpisdes velifer</i>)				
CHANNEL CAT (<i>Ictalurus punctatus</i>)				
FLAT HEAD CATFISH (<i>Pylodictis olivaris</i>)				
WHITE BASS (<i>Morone chrysops</i>)				
CONT'D				
ACTION REQUIRED				
NAME OF PERSON DOCUMENTING CONVERSATION		SIGNATURE		DATE
ACTION TAKEN				
SIGNATURE		TITLE		DATE

CONVERSATION RECORD			TIME	DATE																
TYPE	<input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input type="checkbox"/> TELEPHONE	<input type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">ROUTING</th> </tr> <tr> <th style="text-align: center;">NAME/SYMBOL</th> <th style="text-align: center;">INT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		ROUTING		NAME/SYMBOL	INT												
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NAME/SYMBOL	INT																			
Location of Visit/Conference:																				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.																		
SUBJECT <u>RIVERTON, ILL; SEWAGE TREATMENT PLANT, SANGAMIN RIVER, SECT 14.</u>																				

SUMMARY CONT'D FROM PREVIOUS PAGE:

YELLOW BASS	(<u>Micropterus mississippiensis</u>)
GREEN SUNFISH	(<u>Lepomis cyanellus</u>)
ORANGE SPOTTED SUNFISH	(<u>Lepomis humilis</u>)
BLUEGILL	(<u>Lepomis macrochirus</u>)
LARGE MOUTH BASS	(<u>Micropterus salmoides</u>)
WHITE CRAPPIE	(<u>Pomoxis annularis</u>)
FRESHWATER DRUM	(<u>Aplodinotus grunniens</u>)
MINNOWS AND SHINERS	(<u>Cyprinidae</u>)

(3) MR SAUER THOUGHT THAT WHITE BASS, SHINERS, AND MINNOWS MIGHT USE SANGAMIN CREEK FOR SPANNING. DEPENDING ON THE AVAILABILITY OF BANK AND LOG CAVITIES THE CHANNEL CATFISH AND FLATHEAD CATFISH MIGHT USE THE CREEK FOR SPANNING ALSO.

(4) MR SAUER RECOMMENDED RESTRICTING CONSTRUCTION (CONT'D)
ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE

ACTION TAKEN

SIGNATURE	TITLE	DATE

CONVERSATION RECORD			TIME	DATE
TYPE <input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING			ROUTING	
Location of Visit/Conference:				
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU		ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.	
SUBJECT			NAME/SYMBOL INT	
RIVERTON, ILL; SEWAGE TREATMENT PLANT, SAUGAMIN RIVER, SECT 14.				
SUMMARY				
CONT'D FROM PREVIOUS PAGE.				

TO THE PERIOD FROM OCTOBER TO MARCH TO MINIMIZE IMPACTS TO SPawning FISH. IT WOULD BE ESPECIALLY PREFERRED TO PERFORM THE CONSTRUCTION DURING PERIODS WHEN THE CREEK BED WAS DRY.

⑤ MR SAUER REAFFIRMED THE ILL DEC POLICY AGAINST STREAM CHANNELIZATION AND ASKED IF THE ERODING BANK COULD HAVE BEEN GRADED AND RIPRAPPED WITHOUT REALIGNING THE CHANNEL. I TOLD HIM I DIDN'T THINK SO BECAUSE IF IT WAS CONSIDERED A TECHNICALLY FEASIBLE AND RELIABLE METHOD OF STABILIZING THE BANK IT WOULD HAVE BEEN SELECTED AS THE RECOMMENDED PLAN BECAUSE IT WOULD BE MORE COST EFFECTIVE.

⑥ MR SAUER WONDERED IF THE FILL AREA BEHIND THE RIPRAP (ON THE SEWAGE TREATMENT PLANT SIDE OF THE CREEK) COULD BE PLANTED WITH TREES. I TOLD HIM I DIDN'T KNOW AT THIS TIME.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
BOB VANDERTACK	Robert C. Vanderyack	7 DEC 87
ACTION TAKEN		

SIGNATURE	TITLE	DATE

Responses to Recommendations:

1. U.S. EPA recommendation to limit construction to the period from October to March to minimize impacts to spawning fish (see paragraph 5 of Telecon dated 23 Dec 87): The Rock Island District concurs with this recommendation. However, if the time required to approve the project, appropriate funds, and award a contract extends beyond March of 1988, a delay of construction until October of 1988 is not considered prudent because a severe weather event during the 6 months of deliberate delay could result in direct damages to the sewage treatment facility with severe property and economic losses and a potential for environmental impacts which could be substantially worse than the temporary impact to the fishery.

2. Illinois DOC recommendation to plant the fill area behind the riprap with trees (see paragraph 6 of Telecon with Randy Sauer, Illinois DOC, dated 4 Dec 87): After consideration of the recommendation, it was decided that the Rock Island District position on the planting of trees would remain essentially the same as stated in paragraph 2 on page 14 of the project report. The trees lost occur naturally in the area and will volunteer in the area of concern if left undisturbed (i.e., not mowed). The species lost are not unique and occur abundantly in the general area. The bank will be stabilized by the riprap so the planting of trees for stabilization effects is not needed. Therefore, the expenditure of Federal and local sponsor funds to plant trees is not considered warranted.

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SPRINGFIELD, IL 62701**

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3 WEST OLD CAPITAL PLAZA, SUITE 1
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WASHINGTON, D.C. 20515**

**HONORABLE ROBERT M. PICHEL, REPRESENTATIVE IN CONGRESS
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**MR. JACK RUDY, NATIONAL PARK SERVICE, LSEI
ROCKY MT. REGAL OFF, P.O. BOX 25281
DENVER, CO 80225**

**DIRECTOR, ADVISORY COUNCIL ON HISTORIC PRESERVATION
OLD PC BLEG BBS, 1100 PENNSYLVANIA AVENUE NW
WASHINGTON DC 20004**

**DIRECTOR, EFC OF ECOLOGY & CONSERVATION
DEPT OF COMMERCE, RP 5313 (PP/EC), 14TH & CONSTITUTION AVE., NW
WASHINGTON, DC 20220**

**DR ALLAN HIRSCH - DIRECTOR, OFFICE OF FEDERAL ACTIVITIES (A-104)
US ENVIRONMENTAL PROTECTION AGENCY, 401 P STREET SW
WASHINGTON DC 20460**

**FEDERAL EMERGENCY MANAGEMENT ADMIN, 500 C STREET SW
ROOM 713, WASHINGTON DC 20472**

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FEDERAL ENERGY REGULATORY COMMISSION, 225 A CAPITOL ST NE
WASHINGTON DC 20590**

**ADMINISTRATOR, FEDERAL HIGHWAY ADMIN
US DEPT OF TRANSPORTATION, 400 SEVENTH ST SW
WASHINGTON DC 20590**

**OFFICE OF ENVIRONMENTAL PROJ REVIEW, DEPARTMENT OF INTERIOR
19TH & C STREETS NW - ROOM 4241, WASHINGTON DC 20240**

12

**DIRECTOR, OFFICE OF HABITAT PROTECTION
NATIONAL MARINE FISHERIES SERVICE, NOAA
WASHINGTON DC 20235**

**WATER RESOURCES-POSE CONTR, DIVN OF PARASITIC DISEASES
ATTN: JAMES M STEWART, CENTER FOR DISEASE CONTROL
ATLANTA GA 30333**

**MR VALDES J ADAMKUS - ADMINISTRATOR, US ENVIRONMENTAL PROTECTION AGENCY
230 S DEARBORN ST, CHICAGO IL 60604**

3

**REGIONAL ENGINEER, FERC REGIONAL OFFICE
FEDERAL BLDG - 31ST FLOOR, 230 S DEARBORN ST
CHICAGO IL 60604**

**STATE CONSERVATIONIST, SOIL CONSERVATION SVC ILL
FEDERAL BUILDING, FC BOX 679
CHAMPAIGN IL 61920**

2

**DIRECTOR, US GEOLOGICAL SURVEY
WATER RESOURCES DIVISION, P.O. BOX 1230
ICMA CITY, IA 52240**

**REGIONAL DIRECTOR, REGION 3, U.S. FISH AND WILDLIFE SERVICE
FEDERAL BLDG FORT SELLINE, TWIN CITIES MN 55111**

**REGIONAL HYDROLOGIST W/CR2, NATIONAL WEATHER SERVICE
CENTRAL REGION HEADQUARTERS NOAA, 601 E 12TH ST - ROOM 1636
KANSAS CITY MO 64108**

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MILWAUKEE WI 53203

2

COMMANDER, US ARMY ENGINEER DIVISION
NORTH CENTRAL, 536 S CLARK STREET
CHICAGO IL 60605-1592-1592

OFFICE OF THE GOVERNOR, ATTN: TOM PERKSHIRE
STATE OF ILLINOIS, SPRINGFIELD, IL 62706

HONORABLE JAMES R THOMPSON, GOVERNOR OF ILLINOIS
STATE CAPITOL, SPRINGFIELD IL 62706

DIRECTOR, DEPT OF ENERGY AND NATURAL RESOURCES
325 W ADAMS - ROOM 200, SPRINGFIELD IL 62706

PROGRAM MANAGER-WATER RESOURCES, DIVN OF NATURAL RESOURCES
ILLINOIS STATE FAIRGROUNDS, SPRINGFIELD, IL 62706

DIRECTOR, IL CONSERVATION DEPARTMENT
NATURAL RESOURCES BUREAU, 524 S 2ND ST - LINCOLN TOWER PLAZA
SPRINGFIELD IL 62706

4

MR DONALD MCNAMEE - DIRECTOR, DIVISION OF WATER RESOURCES
IL DEPARTMENT OF TRANSPORTATION, 2300 SOUTH DIXIE PARKWAY
SPRINGFIELD IL 62764

3

MR RICHARD G CARLSON - SUPERVISOR, ENVIRONMENTAL PROTECTION AGENCY
2200 CHURCHILL ROAD, SPRINGFIELD IL 62706

CHIEF, ILLINOIS STATE WATER SURVEY
2204 GRIFFITH DRIVE, CHAMPAIGN IL 61820

DR MICHAEL DEVINE, STATE HISTORIC PRESERVATION OFFICER
HISTORIC PRESERVATION AGENCY, OLD STATE CAPITOL BLDG
SPRINGFIELD IL 62701

HONORABLE JOHN A DAVIDSON, ILLINOIS SENATOR
721 MYERS BLDG, SPRINGFIELD, IL 62701

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1622 ACLE AVENUE, SPRINGFIELD IL 62704**

**HONORABLE SAM VINSON, ILLINOIS REPRESENTATIVE
PO BOX 466, CLINTON IL 61727**

**BOARD OF SUPERVISORS, SANGAMON CO COURT HOUSE
800 E MONROE, SPRINGFIELD IL 62701**

**COUNTY ATTORNEY, SANGAMON CO COURT HOUSE
800 E MONROE, SPRINGFIELD IL 62701**

**COUNTY CLERK, SANGAMON CO COURT HOUSE
800 E MONROE, SPRINGFIELD IL 62701**

**COUNTY ENGINEER, SANGAMON CO COURT HOUSE
800 E MONROE, SPRINGFIELD IL 62701**

MAYOR & CITY COUNCIL, RIVERTON IL 62561

**MR JAMES VASCONCELLES, VASCONCELLES ENGINE CORP
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